XR-4200R/4300R/4300RX

SERVICE MANUAL

AEP Model
UK Model

Ver 1.1 2001.05

Photo: XR-4300R

Model Name Using Similar Mechanism	XR-C5110R
Tape Transport Mechanism Type	MG-25G-136

SPECIFICATIONS

Cassette player section

Tape track	4-track 2-channel stereo
Wow and flutter	0.08 % (WRMS)
Frequency response	30 – 18,000 Hz
Signal-to-noise ratio	

Cassette type	
TYPE II, IV*1	61 dB
TYPE I	58 dB

Tuner section

FM

Tuning range	87.5 – 108.0 MHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450kHz
Usable sensitivity	8 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	66 dB (stereo), 72 dB (mono)
Harmonic distortion at 1 kHz	0.6 % (stereo), 0.3 % (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz

MW/LW

Tuning range	MW: 531 – 1,602 kHz LW: 153 – 279 kHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	MW: 30 µV LW: 40 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	50 W × 4 (at 4 ohms)

General

Outputs	Audio output Power aerial relay control lead Power amplifier control lead Telephone ATT control lead*2
Tone controls	Bass ±9 dB at 100 Hz Treble ±9 dB at 10 kHz
Power requirements	12 V DC car battery (negative earth)
Dimensions	Approx. 178 × 50 × 183 mm (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 162 mm (w/h/d)
Mass	Approx. 1.2 kg
Supplied accessories	Parts for installation and connections (1 set) Front panel case (1)

*1 *XR-4300RX/4300R only*
*2 *XR-4300RX/4300R only*

Design and specifications are subject to change without notice.

FM/MW/LW CASSETTE CAR STEREO

9-870-056-12
2001E0500-1
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Sony Corporation
e Vehicle Company
Shinagawa Tec Service Manual Production Group

SONY®

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Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

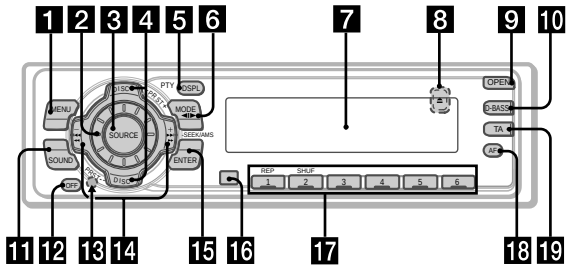
Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SECTION 1
GENERAL

This section is extracted from instruction manual.

Location of controls



Refer to the pages listed for details.

1 **MENU button**
9, 11, 12, 13, 15, 17, 19, 22, 24
2 **Volume control dial**
3 **SOURCE (TUNER/TAPE) button 8, 10, 12, 13, 16, 23**
4 **PRST +/– (cursor up/down) buttons 8, 9, 11, 12, 13, 15, 17, 18, 19, 22, 24**
During radio reception: Preset stations select 13
5 **DSPL/PTY (display mode change/ programme type) button 11, 14, 18, 23, 24**
6 **MODE button 10, 11, 12, 13, 23**
During tape playback: Playback direction change 10
During radio reception: BAND select 12
7 **Display window**
8 **⏏ (eject) button (located on the front side of the unit behind the front panel) 10**
9 **OPEN button 7, 10, 26**
10 **D-BASS button 23**
11 **SOUND button 21**
12 **OFF button*2 7, 8, 10**
13 **Reset button (located on the front side of the unit behind the front panel) 7**
14 **SEEK/AMS –/+ (cursor left/right) buttons 8, 9, 10, 11, 12, 13, 15, 17, 19, 21, 22, 24, 25**
Seek 13, 15
Automatic Music Sensor 10, 25
Manual search 13, 25
15 **ENTER button 9, 11, 12, 13, 15, 17, 18, 19, 22, 24**
16 **Receptor for the card remote commander*3**
17 **Number buttons**
During radio reception: Preset number select 12, 13, 16, 17
During tape playback: ① REP 11
18 **AF button 15, 17**
19 **TA button 16, 17**

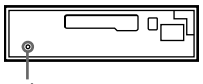
*2 **Warning when installing in a car without ACC (accessory) position on the ignition key switch**
Be sure to press OFF on the unit for two seconds to turn off the clock display after turning off the engine.
When you press OFF only momentarily, the clock display does not turn off and this causes battery wear.

*3 **XR-4300RX/4300R only**

Getting Started

Resetting the unit

Before operating the unit for the first time or after replacing the car battery, you must reset the unit.
Remove the front panel and press the reset button with a pointed object, such as a ballpoint pen.



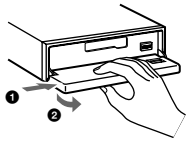
Note
Pressing the reset button will erase the clock setting and some memorised functions.

Detaching the front panel

You can detach the front panel of this unit to protect the unit from being stolen.

1 Press OFF.

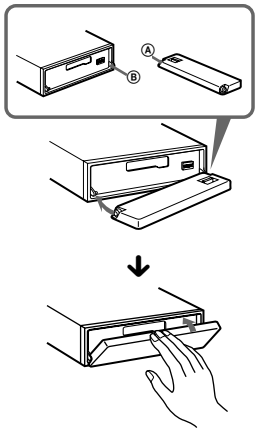
2 Press OPEN, then slide the front panel to the right side, and pull out from the left side.



Notes
- *Be sure not to drop the panel when detaching it from the unit.*
- *If you detach the panel while the unit is still turned on, the power will turn off automatically to prevent the speakers from being damaged.*
- *When you carry the front panel with you, use the supplied front panel case.*

Attaching the front panel

Place the hole Ⓐ of the front panel onto the spindle Ⓑ on the unit as illustrated, then push the left side in.



Notes
- *Be careful not to attach the front panel upside down.*
- *Do not press the front panel too hard against the unit when attaching it.*
- *Do not press too hard or put excessive pressure on the display window of the front panel.*
- *Do not expose the front panel to direct sunlight or heat sources such as hot air ducts, and do not leave it in a humid place. Never leave it on the dashboard of a car parked in direct sunlight or where there may be a considerable rise in temperature.*

Caution alarm

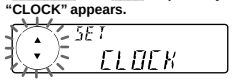
If you turn the car ignition off without removing the front panel, the caution alarm will beep for a few seconds.
If you connect an optional power amplifier and do not use the built-in amplifier, the beep sound will be deactivated.

Setting the clock

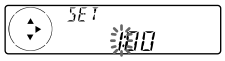
The clock uses a 24-hour digital indication.

Example: To set the clock to 10:08

1 Press MENU, then press either side of PRST/DISC or PRST repeatedly until "CLOCK" appears.



❶ Press ENTER.



The hour indication flashes.

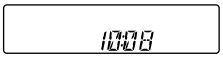
❷ Press either side of PRST/DISC or PRST to set the hour.

❸ Press (+) side of SEEK/AMS.

The minute indication flashes.

❹ Press either side of PRST/DISC or PRST to set the minute.

2 Press ENTER.



The clock starts.

After the clock setting is complete, the display returns to normal playback mode.

Tips
- *You can use the convenient CT function to set the clock automatically (page 19).*
- *When the D.INFO mode is set to ON, the time is always displayed (page 22).*

Installation

Precautions

- If you mount other Sony equipment with this unit, it is better to mount this unit in the lower position.
- There must be a distance of at least 15 cm between the cassettes slot of the unit and shift lever to insert cassette easily. Choose the installation location carefully so the unit does not interfere with gear shifting and other driving operations.
- Choose the installation location carefully so that the unit will not interfere with normal driving operations.
- Avoid installing the unit in areas subject to dust, dirt, excessive vibration, or high temperatures, such as in direct sunlight or near heater ducts.
- Use only the supplied mounting hardware for a safe and secure installation.

Mounting angle adjustment

Adjust the mounting angle to less than 20°.

Instalación

Precauciones

- Si monta otro equipo Sony con esta unidad, es preferible montar esta unidad en la posición más baja.
- Para que sea posible insertar la cinta con facilidad, debe haber una distancia de al menos 15 cm entre la ranura de inserción de cintas de la unidad y la palanca de cambios.
  Instale la unidad en un lugar que no entorpezca las operaciones de cambio de marchas o de conducción en general.
- Elija cuidadosamente el lugar de montaje de forma que la unidad no interfiera las funciones normales de conducción.
- Evite instalar la unidad donde pueda quedar sometida a altas temperaturas, como a la luz solar directa o al aire de calefacción, o a polvo, suciedad, o vibraciones excesivas.
- Para realizar una instalación segura y firme, utilice solamente la ferretería de montaje suministrada.

Ajustedel ángulode montaje

Ajuste el ángulo de montaje a menos de 20°.

Montering

Säkerhetsföreskrifter

- Om du monterar annan Sony-utrustning till denna enhet är det bäst att montera denna enhet i det undre läget.
- För att du ska kunna sätta i och ta ut bandet måste avståndet vara minst 15 cm mellan kassettfacket på enheten och växelspaken. När du installerar enheten väljer du en plats så att enheten inte är i vägen när du kör.
- Var noga när du väljer var i bilen du monterar bilstereon, så att den inte sitter i vägen när du kör.
- Montera inte bilstereon där den utsätts för värme,
  t ex solsken eller varmluft, eller där den utsätts för damm, smuts och/eller vibrationer.
- Använd endast de medföljande monteringstillbehören för att vara säker på att bilstereon monteras på ett säkert och korrekt sätt.

Tillåtenmonteringsvinkel

Monteringsvinkeln får inte vara större än 20 grader.

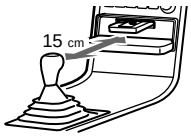
Instalação

Precauções

- É preferível montar este aparelho na posição mais baixa, se quiser montar simultaneamente outros equipamentos da Sony.
- Para colocar com facilidade a cassete, deve haver uma distância de pelo menos 15 cm entre a ranhura de introdução da cassete e a alavanca das mudanças.
  Escolha o local de instalação de forma a que o aparelho não interfira com as mudanças de velocidade ou com as outras manobras de condução.
- Escolha com cuidado um local apropriado para a montagem do aparelho, para que este não interfira com as manobras necessárias à condução do veículo.
- Evite instalar o aparelho onde possa estar sujeito a altas temperaturas, como em locais expostos directamente à luz do sol, ao ar quente dos aquecimentos, ou sujeitos a pó, sujidade ou vibração excessiva.
- Para efectuar uma instalação segura utilize unicamente o hardware de montagem fornecido.

Ajustedo ângulode montagem

Ajuste o ângulo de montagem a menos de 20°.



How to detach and attach the front panel

Before installing the unit, detach the front panel.

A To detach

Before detaching the front panel, be sure to press (OFF). Press (OPEN), then slide the front panel to the right side, and pull out the left side.

B To attach

Place the hole Ⓐ in the front panel onto the spindle Ⓑ on the unit as illustrated, then push the left side in.

Formade extraer e instalar el panel frontal

Antes de instalar la unidad, extraiga el panel frontal.

A Para extraerlo

Antes de extraer el panel frontal, ceriórese de pulsar (OFF). Después pulse (OPEN) a fin de abrirlo, después deslícelo hacia la derecha, y por último tire de su parte izquierda.

B Para instalarlo

Coloque el orificio Ⓐ del panel frontal en el eje Ⓑ de la unidad, como se muestra en la ilustración, y después presione la parte izquierda.

Ta loss/fästa frontpanelen

Ta lossframpanelen innan du monterar bilstereon.

A Ta loss frontpanelen

Var noga med att trycka på (OFF) innan frontpanelen tas loss. Tryck därefter på (OPEN) för att öppna frontpanelen. Skjut frontpanelen åt höger och dra dess vänstra del utåt för att ta loss frontpanelen.

B Fästa frontpanelen

Placera frontpanelen så att hålet Ⓐ på frontpanelen träs över axeln Ⓑ på bilstereon enligt illustrationen. Tryck därefter frontpanelens vänstra del inåt.

Para retirar e colocar o painel frontal

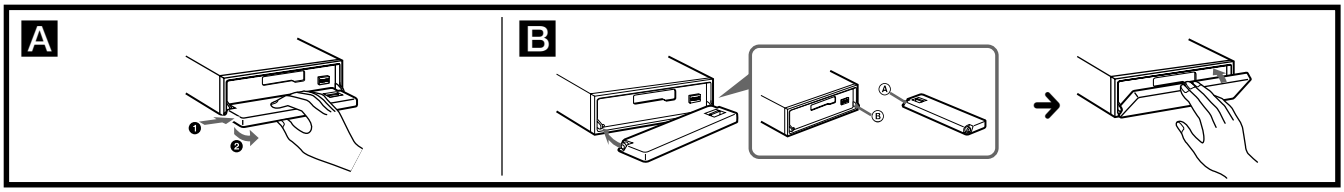
Retire o painel frontal antes de iniciar a instalação do aparelho.

A Para retirar

Antes de retirar o painel frontal, tem de carregar primeiro em (OFF). A seguir, carregue em (OPEN) para soltar o painel frontal e empurre-o para a direita. Depois puxe o lado esquerdo do painel para fora.

B Para colocar

Coloque o orificio Ⓐ do painel frontal no eixo Ⓑ do aparelho tal como ilustrado, e depois carregue no lado esquerdo para dentro.

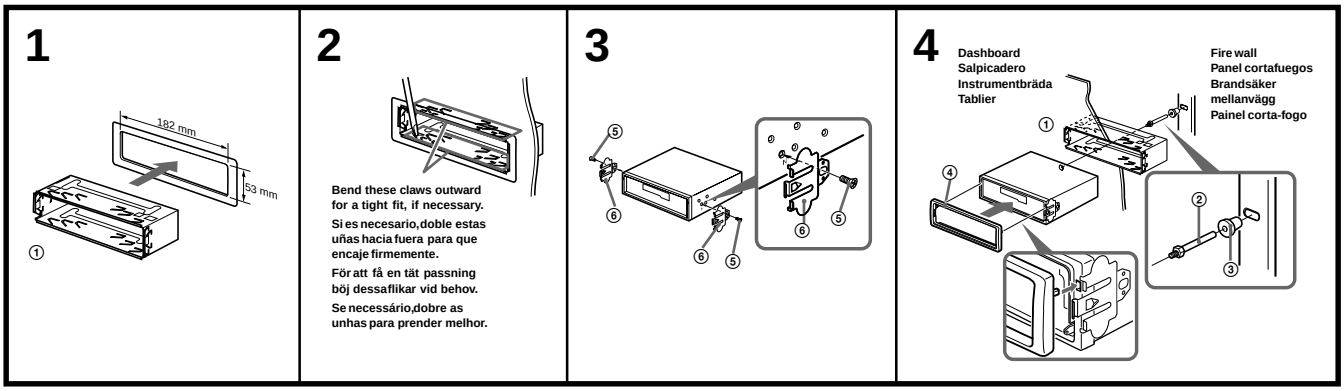


Installation in the dashboard

Instalación en el salpicadero

Montera på instrumentbrädan

Instalação no tablier



Reset button

When the installation and connections are complete, be sure to press the reset button with a ballpoint pen, etc.

Botón de restauración

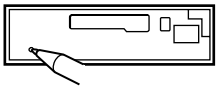
Cuando finalice la instalación y las conexiones, ceriórese de pulsar el botón de restauración con un bolígrafo, etc.

Nollställningsknappen

Kom ihåg att använda en penna eller något annat spetsigt föremål för att trycka på nollställningsknappen när anslutningen och monteringen är klar.

Botãode reinicialização

Quando terminar a instalação e as ligações, não se esqueça de carregar no botão de reinicialização com a ponta de uma caneta, esferográfica, etc.



Connections

Cautions

- This unit is designed for negative earth 12 V DC operation only.
- Be careful not to pinch any wires between a screw and the body of the car or this unit or between any moving parts such as the seat railing, etc.
- Connect the power connecting cord ⑧ to the unit and speakers before connecting it to the auxiliary power connector.
- **Run all earth wires to a common earth point.**
- Connect the yellow cord to a free car circuit rated higher than the unit's fuse rating. If you connect this unit in combination with other stereo components, the car circuit they are connected to must be rated higher than the sum of the individual components' fuse rating. If there are no car circuits rated as high as the unit's fuse rating, connect the unit directly to the battery. If no car circuits are available for connecting this unit, connect the unit to a car circuit rated higher than the unit's fuse rating in such a way that if the unit blows its fuse, no other circuits will be cut off.

Warning when installing in a car without ACC (accessory) position on the ignition key switch

Be sure to press (OFF) on the unit for two seconds to turn off the clock display after turned off the engine.
When you press (OFF) momentarily, the clock display does not turn off and this causes battery wear.

Notes of connection example

Notes on the control leads

- *The power aerial control lead (blue) supplies +12 V DC when you turn on the tuner or when you activate the ATA (Automatic Tuner Activation), AF (Alternative Frequency) or the TA (Traffic Announcement) function.*
- *A power aerial without a relay box cannot be used with this unit.*
- *When your car has a built-in FM/MW/LW aerial in the rear/side glass, it is necessary to connect the power aerial control lead (blue) or the accessory power input lead (red) to the power terminal of the existing aerial booster. For details, consult your dealer.*

Warning
If you have a power aerial without a relay box, connecting this unit with the supplied power connecting cord ⑧ may damage the aerial.

Memory hold connection
When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection

- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.*
- *Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers. Be sure to connect passive speakers to these terminals.*

Conexiones

Precauciones

- Esta unidad ha sido diseñada para alimentarse con 12 V CC, negativo a masa, solamente.
- Tenga cuidado de no atrapar ningún cable entre algún tornillo y la carrocería del automóvil o esta unidad o entre las partes móviles, como por ejemplo los raíles del asiento, etc.
- Conecte el cable de conexión de alimentación ⑧ a la unidad y los altavoces antes de conectarlo al conector de alimentación auxiliar.
- **Conecte todos los conductores de puesta a masa a un punto común.**
- Conecte el cable amarillo a un circuito libre del automóvil de potencia nominal superior a la del fusible de la unidad. Si conecta esta unidad en combinación con otros componentes estéreo, la potencia nominal del circuito del automóvil a los que dichos componentes estén conectados debe ser superior a la suma de la potencia nominal del fusible de los componentes. Si no existen circuitos de automóvil de potencia nominal tan alta como la del fusible de la unidad, conecte ésta directamente a la batería. Si no hay circuitos de automóvil disponibles para conectar esta unidad, conecte la misma a un circuito de automóvil de potencia nominal superior a la del fusible de la unidad de forma que no se desactiven otros circuitos si el fusible de dicha unidad se funde.

Advertencia sobre la instalación en un automóvil que no disponga de posición ACC (accesorios) en el interruptor de la llave de encendido

Asegúrese de pulsar (OFF) en la unidad durante dos segundos para desactivar la indicación del reloj una vez apagado el motor.
Si pulsa (OFF) momentáneamente, la indicación del reloj no se desactivará y esto causará el desgaste de la batería.

Notas de ejemplo de conexiones

Notas sobre cables de control

- *El cable de control (azul) de la antena motorizada suministra + 12 V CC al activar el sintonizador o la función ATA (activación automática del sintonizador), AF (frecuencias alternativas) o TA (anuncios de tráfico).*
- *Con esta unidad no podrá utilizarse una antena motorizada sin caja de relés.*
- *Si el automóvil dispone de antena de FM/MW/LW incorporada en el cristal trasero/lateral, será necesario conectar el cable de control de antena motorizada (azul) o el cable de entrada de alimentación accesoria (rojo) al terminal de potencia del amplificador de antena existente. Para más información, consulte con el proveedor.*

Advertencia
Si dispone de una antena motorizada sin dispositivo de relé, la conexión de esta unidad con el cable de conexión de alimentación ⑧ suministrado puede dañar la antena.

Conexión para protección de la memoria
Si conecta el cable de entrada de alimentación amarillo, el circuito de la memoria recibirá siempre alimentación, incluso aunque ponga la llave de encendido en la posición de apagado.

Notas sobre la conexión de los altavoces

- *Antes de conectar los altavoces, desconecte la alimentación de la unidad.*
- *Utilice altavoces con una impedancia de 4 a 8 ohmios, y con la potencia máxima admisible adecuada, ya que de lo contrario podría dañarlos.*
- *No conecte los terminales del sistema de altavoces al chasis del automóvil, ni los del altavoz izquierdo a los del derecho.*
- *No intente conectar los altavoces en paralelo.*
- *No conecte altavoces activos (con amplificadores incorporados) a los terminales de altavoces de la unidad. Si lo hiciese, podría dañar tales altavoces. Por lo tanto, cerciórese de conectar altavoces pasivos a estos terminales.*

Anslutning

Säkerhetsföreskrifter

- Denna bilstereo är endast avsedd för anslutning till ett negativt jordat, 12 V bilbatteri.
- Var noga med att inga kablar kläms mellan någon skruv eller att de blir klämda mellan rörliga delar som t.ex. bilsätet.
- Anslut strömkabeln ⑧ till enheten och högtalarna innan du ansluter den till den yttre strömanslutningen.
- **Dra samtliga jordledningar till en och samma jordningspunkt.**
- Anslut den gula kabeln till en ledig bilkrets med ett högre amperetal än enhetens. Om du kopplar både denna enhet och andra stereokomponenter till en och samma bilkrets, måste den bilkrets de kopplas till ha en högre ampere än summan av de enskilda delarnas amperestyrka. Om det inte finns några bilkretsar med en så hög amperestyrka som enhetens ska du ansluta enheten direkt till batteriet. Om inga bilkretsar finns för anslutning till enheten ska du ansluta enheten till en bilkrets med ett högre amperetal än enhetens säkring, så att det är denna som går i stället för bilens.

Var försiktig när du gör installationen i en bil där tändningslåset saknar tillbehörsläge (ACC)

Glöm inte att trycka på (OFF) på enheten under två sekunder för att stänga av klockans teckenfönster efter det att du har stängt av motorn.
Om du bara trycker på (OFF) ett kort ögonblick slocknar inte klockans teckenfönster vilket kan leda till att batteriet laddas ur.

Att observera angående anslutningsexemplen

Att observera angående de olika styrkablarna

- *Motorantennens styrkabel (blå) leder + 12 volts likström när kanalväljaren slås på eller när radiomottagningsautomatik ATA, mottagning av alternativa frekvenser AF eller mottagning av trafikmeddelanden TA aktiverats.*
- *En motorantenn utan styrrelädosa kan inte anslutas till denna bilstereo.*
- *Om bilen har en FM/MW/LW-antenn som är inbyggd i sido- eller bakrutan, måste du ansluta motorantennens styrkabel (blå) eller tilbehörsströmkabeln (röd) till strömterminalen på antennförstärkaren. Din återförsäljare kan ge dig mer information.*

Varning
Om du har en motorantenn utan reläbosa kan antennen skadas om du ansluter enheten med den medföljande strömkabeln ⑧.

Anslutning för minnesstöd
När du anslutit den gula, ingående strömkabeln försörjs minneskretsen med ström hela tiden, även när tändningslåset slås ifrån.

Att observera angående högtalarnas anslutning

- *Slå av bilstereon innan du ansluter högtalarna.*
- *Anslut endast högtalare, vars impedans varierar från 4 till 8 ohm och som har tillräcklig effekthanteringskapacitet för att skydda högtalarna mot skador.*
- *Anslut inte något av högtalaruttagen till bilens chassi. Anslut inte heller uttagen på höger högtalare till uttagen på vänster högtalare.*
- *Anslut inte högtalarna parallellt.*
- *Anslut inte aktiva högtalare (med inbyggda slutsteg) till bilstereons högtalaruttag, eftersom de kan skada de aktiva högtalarna. Var noga med att bara ansluta passiva högtalare till dessa uttag.*

Ligações

Cuidado

- Este aparelho foi concebido para funcionar somente com corrente contínua de 12 V com negativo à massa.
- Tenha cuidado para que os fios não fiquem entalados entre os parafusos e a carroçaria do automóvel ou a caixa do aparelho nem entre as peças móveis, por exemplo, as calhas dos bancos, etc.
- Ligue o cabo de alimentação de corrente ⑧ ao aparelho e aos alifalantes antes de o ligar ao conector de corrente auxiliar.
- **Ligue todos os cabos de massa num ponto de massa comum.**
- Ligue o cabo amarelo a um circuito eléctrico livre do automóvel, cuja potência nominal seja superior à dos fusíveis do aparelho. Se ligar este aparelho em série com outros componentes estéreo, a potência nominal do circuito eléctrico do automóvel onde os ligar tem de ser superior à soma da potência nominal dos fusíveis de todos os componentes individuais. Se não houver nenhum circuito eléctrico do automóvel com uma potência nominal tão elevada como a dos fusíveis do aparelho, ligue-o directamente à bateria. Se não estiver disponível nenhum circuito eléctrico do automóvel para ligação deste aparelho, ligue-o a um circuito eléctrico do automóvel com uma potência nominal superior à dos fusíveis do aparelho, de tal modo que, se o aparelho rebentar os fusíveis respectivos, nenhum outro circuito seja cortado.

Aviso sobre a instalação num automóvel sem posição ACC (acessórios) na chave de ignição

Verifique se carregou em (OFF) no aparelho durante dois segundos para desactivar o visor do relógio depois de ter desligado o motor.
Se carregar ligeiramente em (OFF), não desactiva o visor do relógio o que provoca o desgaste da bateria.

Notas sobre o exemplo de ligação

Notas sobre os fios de controlo

- *O fio de controlo da antena eléctrica (azul) fornece +12 V CC quando ligar o sintonizador ou quando activar as funções ATA (Activação automática do sintonizador), AF (frequência alternativa) ou TA (Informações de trânsito).*
- *Não pode utilizar uma antena eléctrica sem caixa de relé com este aparelho.*
- *Se o seu automóvel tiver uma antena de FM/MW/LW montada no vidro traseiro/lateral, tem de ligar o fio de controlo da antena eléctrica (azul) ou o fio de entrada de alimentação para os acessórios (vermelho) ao terminal de alimentação do intensificador do sinal da antena existente.*

Advertência
Se a antena eléctrica não tiver uma caixa de relé, o facto de ligar este aparelho com o cabo de alimentação ⑧ fornecido, pode provocar danos na antena.

Ligação para alimentação contínua da memória
Quando o fio amarelo de entrada de alimentação for ligado, os circuitos de memória ficarão com alimentação contínua, mesmo se a chave de ignição estiver desligada.

Notas sobre a ligação dos altifalantes

- *Antes de ligar os altifalantes, desligue o aparelho.*
- *Utilize altifalantes com impedância de 4 a 8 ohm, e com capacidade admissível de potência adequada. Caso contrário, os altifalantes poderão sofrer avarias.*
- *Não ligue os terminais do sistema de altifalantes ao chassis do automóvel, e não ligue os terminais do altifalante direito aos terminais do altifalante esquerdo.*
- *Não tente ligar os altifalantes em paralelo.*
- *Não ligue nenhum sistema de altifalantes activos (com amplificadores incorporados) aos terminais dos altifalantes do aparelho. Caso o faça, poderá avariar o sistema de altifalantes activos. Portanto, não se esqueça de ligar altifalantes passivos a estes terminais.*

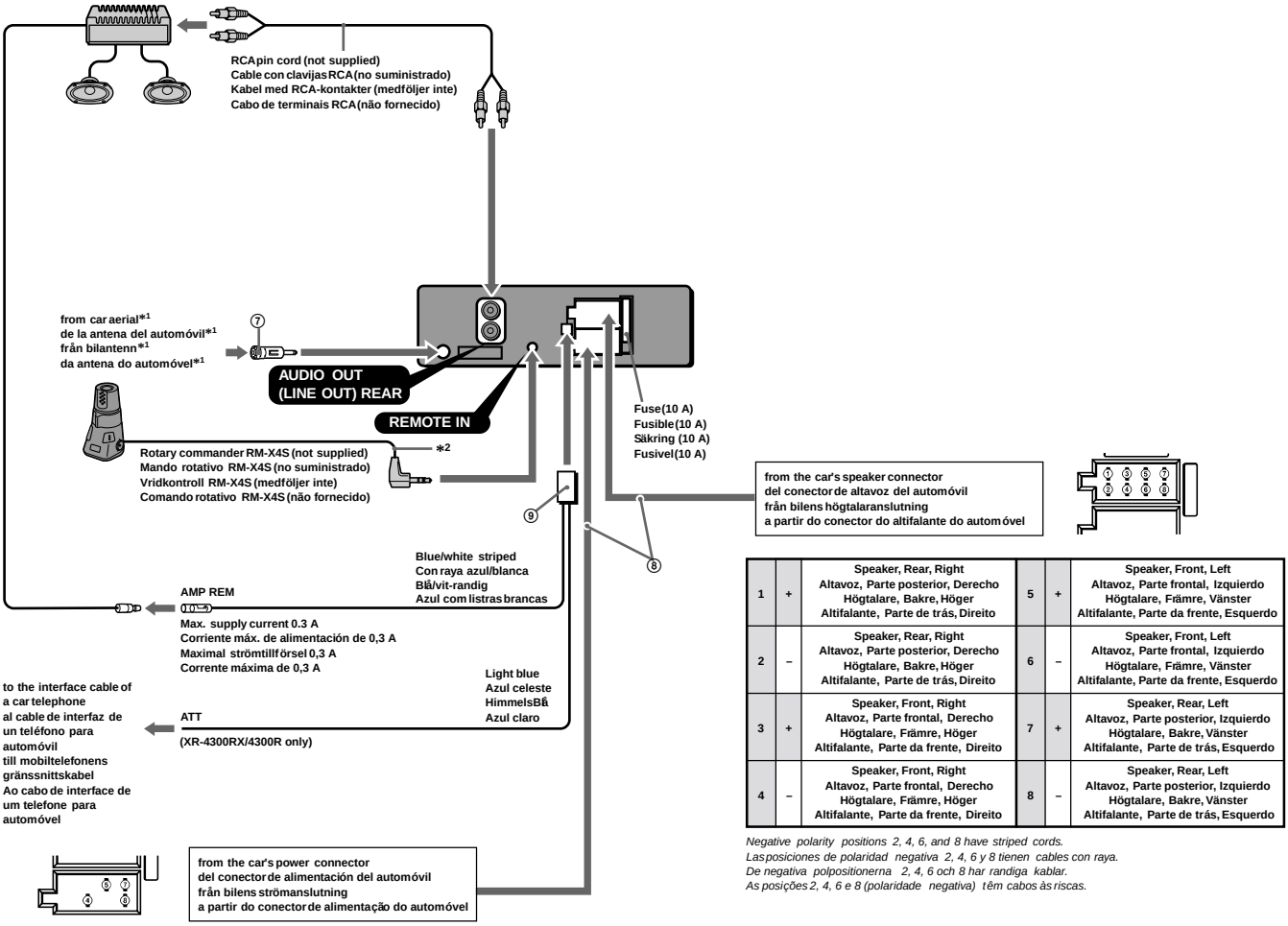
Connection example
Ejemplode conexiones
Anslutningarna enligt exemplet
Exemplode ligações

*1 *Note for the aerial connecting*
If your car aerial is an ISO (International Organization for Standardization) type, use the supplied adapter ⑦ to connect it. First connect the car aerial to the supplied adapter, then connect it to the aerial jack of the master unit.
*2 *Insert with the cord upwards.*

*1 *Nota sobre la conexión de la antena*
Si la antena del autom óvil es del tipo ISO (International Organization for Standardization), emplee el adaptador suministrado ⑦ para conectarla.
En primer lugar, conecte la antena del autom óvil al adaptador suministrado y, a continuaci ón, a la toma de antena de la unidad principal.
*2 *Insertar con el cable hacia arriba.*

*1 *Angående antennanslutning*
Om bilantennen är av ISO-typ (International Organization for Standardization), använder du medf öljande adapter ⑦ för att ansluta den.
Anslut först bilantennen till medf öljande adapter och därefter till antennuttaget på huvudenheten.
*2 *Sätt in med kabeln vänd upp åt.*

*1 *Nota referente à ligação da antena*
Se a antena do autom óvel for uma antena de tipo ISO (International Organization for Standardization), utilize o adaptador fornecido ⑦ para fazer a liga ção respectiva.
Ligue primeiro a antena do autom óvel ao adaptador fornecido e depois à tomada de antena do sistema principal.
*2 *Inserir com o fio virado para cima.*


RCA pin cord (not supplied)
Cable con clavijas RCA (no suministrado)
Kabel med RCA-kontakter (medföljer inte)
Cabo de terminais RCA (não fornecido)
from car aerial*1
de la antena del automóvil*1
från bilantenn*1
da antena do automóvel*1
⑦
AUDIO OUT (LINE OUT) REAR
REMOTE IN
Rotary commander RM-X4S (not supplied)
Mando rotativo RM-X4S (no suministrado)
Vridkontroll RM-X4S (medföljer inte)
Comando rotativo RM-X4S (não fornecido)
*2
Fuse (10 A)
Fusible (10 A)
Säkring (10 A)
Fusível (10 A)
⑨
⑧
Blue/white striped
Con raya azul/blanca
Blå/vit-randig
Azul com listras brancas
AMP REM
Max. supply current 0.3 A
Corriente máx. de alimentación de 0,3 A
Maximal strömtillförsel 0,3 A
Corrente máxima de 0,3 A
Light blue
Azul celeste
Himmelsblå
Azul claro
to the interface cable of a car telephone
al cable de interfaz de un teléfono para automóvil
till mobiltelefonens gränssnittskabel
Ao cabo de interface de um telefone para automóvel
ATT
(XR-4300RX/4300R only)
from the car's speaker connector
del conector de altavoz del automóvil
från bilens högtalaranslutning
a partir do conector do altifalante do automóvel
from the car's power connector
del conector de alimentación del automóvil
från bilens strömanslutning
a partir do conector de alimentação do automóvel

1	+	Speaker, Rear, Right Altavoz, Parte posterior, Derecho Högtalare, Bakre, Höger Altifalante, Parte de trás, Direito	5	+	Speaker, Front, Left Altavoz, Parte frontal, Izquierdo Högtalare, Främre, Vänster Altifalante, Parte da frente, Esquerdo
2	–	Speaker, Rear, Right Altavoz, Parte posterior, Derecho Högtalare, Bakre, Höger Altifalante, Parte de trás, Direito	6	–	Speaker, Front, Left Altavoz, Parte frontal, Izquierdo Högtalare, Främre, Vänster Altifalante, Parte da frente, Esquerdo
3	+	Speaker, Front, Right Altavoz, Parte frontal, Derecho Högtalare, Främre, Höger Altifalante, Parte da frente, Direito	7	+	Speaker, Rear, Left Altavoz, Parte posterior, Izquierdo Högtalare, Bakre, Vänster Altifalante, Parte de trás, Esquerdo
4	–	Speaker, Front, Right Altavoz, Parte frontal, Derecho Högtalare, Främre, Höger Altifalante, Parte da frente, Direito	8	–	Speaker, Rear, Left Altavoz, Parte posterior, Izquierdo Högtalare, Bakre, Vänster Altifalante, Parte de trás, Esquerdo

Negative polarity positions 2, 4, 6, and 8 have striped cords.
Las posiciones de polaridad negativa 2, 4, 6 y 8 tienen cables con raya.
De negativa polpositionerna 2, 4, 6 och 8 har randiga kablar.
As posições 2, 4, 6 e 8 (polaridade negativa) têm cabos às riscas.

4	continuous power supply suministro de alimentación continua kontinuerlig strömförsörjning alimentação de corrente contínua		7	switched power supply suministro conmutado de alimentación switchad strömförsörjning alimentação de corrente comutada	
5	power aerial control control de antena motorizada motorantenn antena eléctrica		8	earth toma de tierra jord Terra	

Positions 1, 2, 3 and 6 do not have pins.
Las posiciones 1, 2, 3 y 6 no disponen de terminales.
Positionerna 1, 2, 3 och 6 saknar stift.
As posições 1, 2, 3 e 6 não têm pinos.

Power connection

Power connectors may vary depending on the car. Check your car's power connector diagram to make sure the connections match correctly. There are two basic types. You may need to switch the positions of the jump connector. Before connecting the unit to the car's power supply, be sure to match the position of the jump connector to the car's pin order. If the power connector of your car does not match the connector on the unit, use the supplied connector ⑧. If you have any questions or problems connecting your unit that are not covered in this manual, please consult the car dealer.

WARNING

Jump connector
Check the pin position of the power connector of the car with the table on the below. If positions 4 and 7 are reversed, remove the jump connector and shift it to the rightmost position as shown in the illustration.

Conexión de alimentación

Los conectores de alimentación pueden variar en función del automóvil. Consulte el diagrama del conector de alimentación del automóvil para comprobar que las conexiones coinciden correctamente. Existen dos tipos básicos. Es posible que sea necesario cambiar las posiciones del conector de empalme. Antes de conectar la unidad al suministro de alimentación del automóvil, asegúrese de que la posición del conector de empalme coincide con el orden de terminales de dicho automóvil. Si el conector de alimentación del automóvil no coincide con el de la unidad, emplee el conector ⑧ suministrado. Si desea realizar alguna consulta o solucionar algún problema referentes a la conexión de la unidad que no aparezcan en este manual, póngase en contacto con el concesionario automovilístico.

ADVERTENCIA

Conector de empalme
Compruebe la posición de terminal del conector de alimentación del automóvil con la tabla que aparece más abajo. Si las posiciones 4 y 7 se invierten, retire el conector de empalme y desplácelo hasta la posición del extremo derecho como se muestra en la ilustración.

Strömanslutningsschema

Strömanslutningarna kan variera beroende pa vilken bil du har. Kontrollera bilens diagram över strömanslutningar för att kontrollera att anslutningarna passar ihop. Det finns tva huvudtyper. Du kan behöva ändra positionerna pa överkopplingen. Innan du ansluter enheten till bilens strömförsörjning bör du kontrollera att överkopplingens placering överensstämmer med bilens polordning. Om din bils strömanslutningar inte överenstämmer med anslutningen pa enheten använder du det medföljande kontaktdonet ⑧. Om du har nagra frågor eller problem när det gäller anslutningen av enheten som inte tas upp i denna bruksanvisning kan du kontakta bilaterförsäljaren.

VARNING

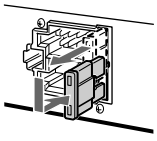
Överkoppling
Jämför bilens strömanslutning med tabellen till nedan. Om positionerna 4 och 7 är omkastade tar du bort överkopplingen och flyttar den till positionen längst till höger.

Diagrama de ligação de corrente

Os conectores de alimentação podem variar de automóvel para automóvel. Verifique o diagrama do conector de alimentação do seu automóvel, para ter a certeza de que a correspondência das ligações está correcta. Há dois tipos básicos. Pode ter que trocar as posições do cone etor de patilha. Antes de ligar o aparelho à fonte de alimentação do automóvel, não se esqueça de fazer a correspondência entre a posição do cone etor de patilha e a ordem dos pinos do automóvel. Se o conector de alimentação do seu automóvel não corresponder ao conector do aparelho, utilize os conector ⑧ fornecido. Se tiver dúvidas ou problemas ao ligar o aparelho que não estejam referidos neste manual, consulte o vendedor do automóvel.

AVISO

Conector jump
Verifique a posição dos pinos do conector de alimentação do automóvel na tabela abaixo. Se as posições 4 e 7 estiverem invertidas, remova o conector jump e mude-o para a posição mais à direita, tal como se mostra na ilustração.



Connection diagram
Diagrama de conexiones
Kopplingsschema
Diagrama de ligações

Equipment used in illustrations (not supplied)
Equipo utilizado en las ilustraciones (no suministrado)
Utrustning som visas i illustrationer (medföljer inte)
Equipamento utilizado nas ilustrações (não fornecido)

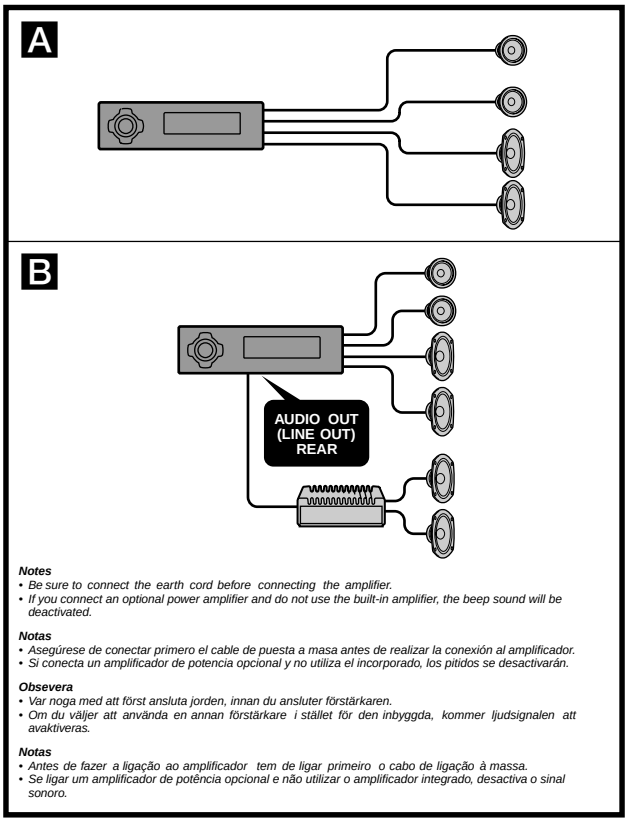
Front speaker
Altavoz delantero
Främre högtalare
Altifalante dianteiro

Rear speaker
Altavoz trasero
Bakre högtalare
Altifalante traseiro

Power amplifier
Amplificador de potencia
Effektförstärkare
Amplificador de potência

CD/MD changer
Cambiador de CD/MD
CD/MD-skivväxlare
Permutador CD/MD

For connecting two or more changers, the source selector XA-C30 (optional) is necessary.
Si desea conectar dos o más cambiadores, necesitará el selector de fuente XA-C30 (opcional).
För anslutning av två eller flera växlare krävs väljaren XA-C30 (tillval).
Para ligar um ou mais permutadores, é necessário o selector de fonte XA-C30 (opcional).



Notes
- *Be sure to connect the earth cord before connecting the amplifier.*
- *If you connect an optional power amplifier and do not use the built-in amplifier, the beep sound will be deactivated.*

Notas
- *Asegúrese de conectar primero el cable de puesta a masa antes de realizar la conexión al amplificador.*
- *Si conecta un amplificador de potencia opcional y no utiliza el incorporado, los pitidos se desactivarán.*

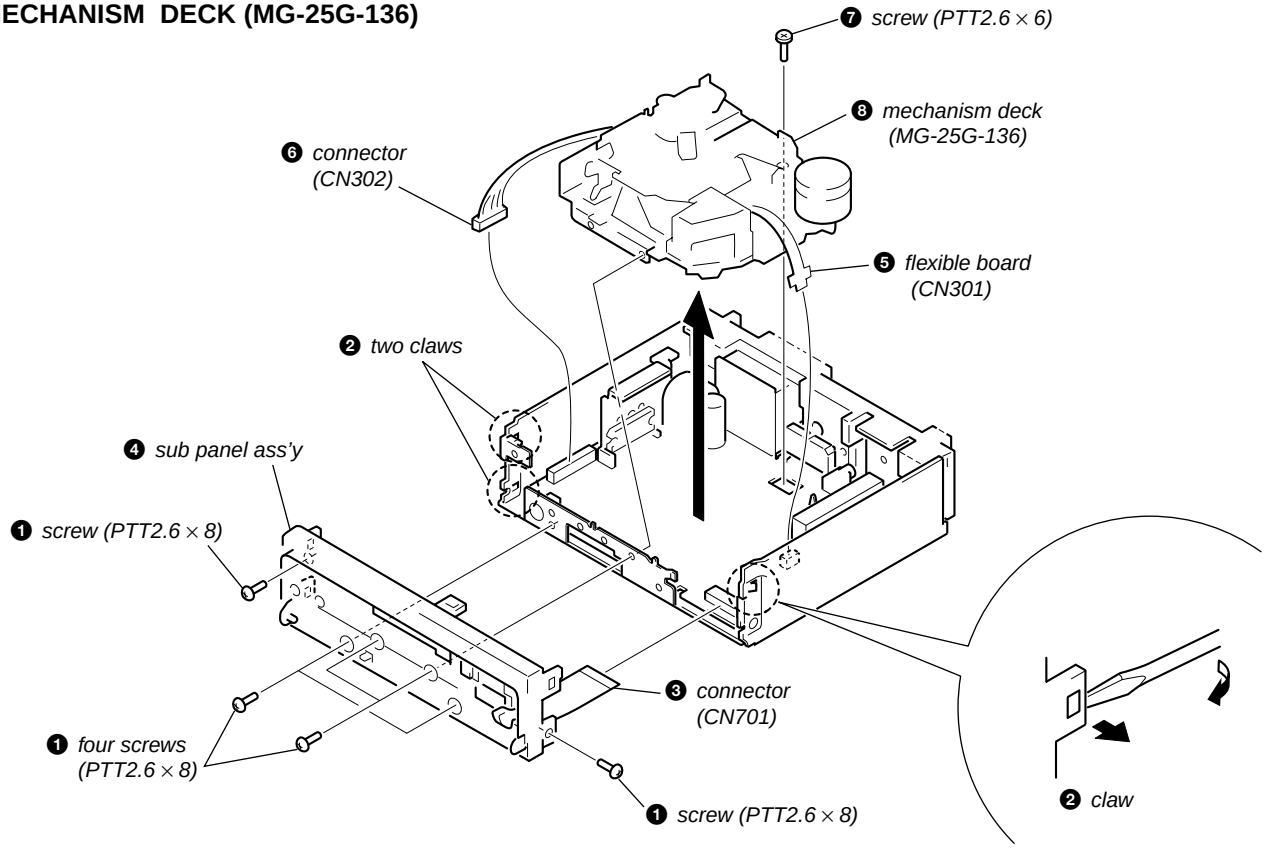
Obsevera
- *Var noga med att först ansluta jorden, innan du ansluter förstärkaren.*
- *Om du väljer att använda en annan förstärkare i stället för den inbyggda, kommer ljudsignalen att avaktiveras.*

Notas
- *Antes de fazer a ligação ao amplificador tem de ligar primeiro o cabo de ligação à massa.*
- *Se ligar um amplificador de potência opcional e não utilizar o amplificador integrado, desactiva o sinal sonoro.*

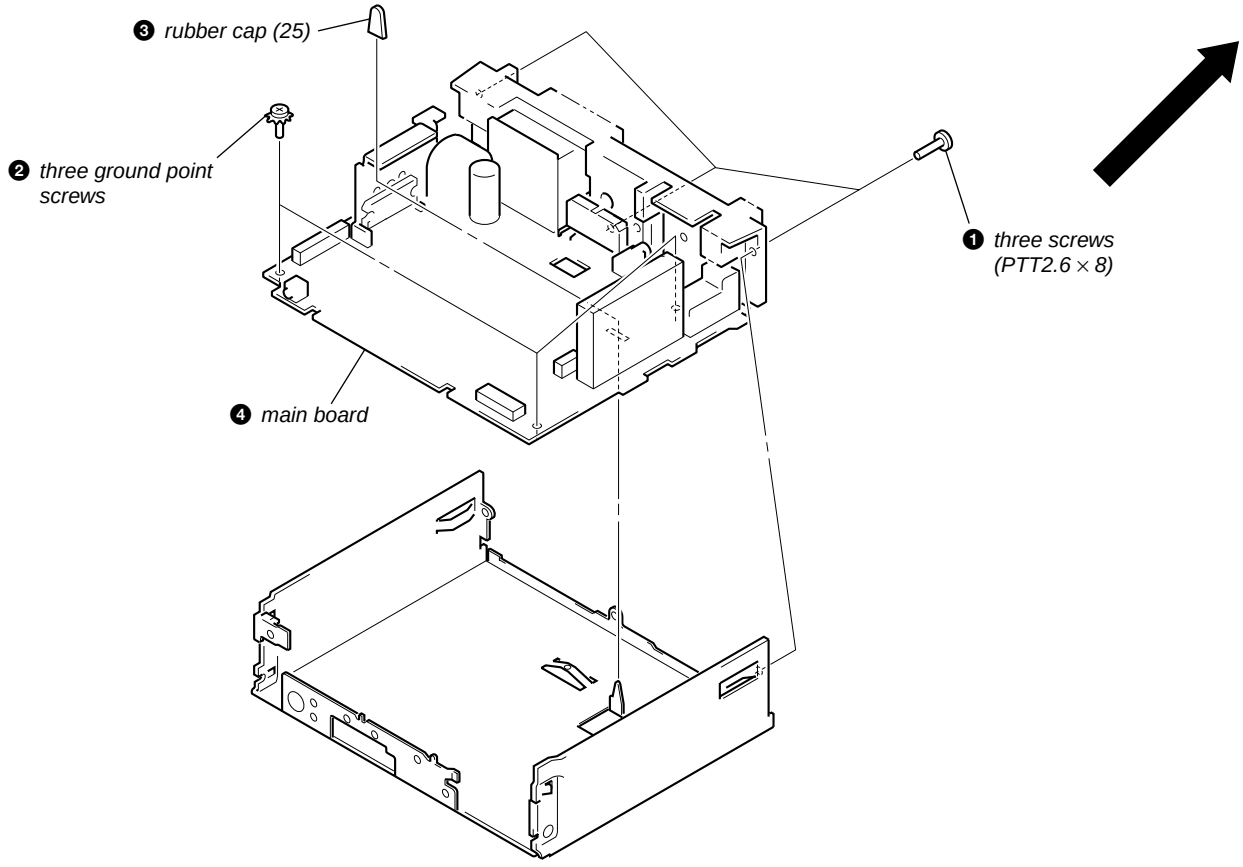
SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

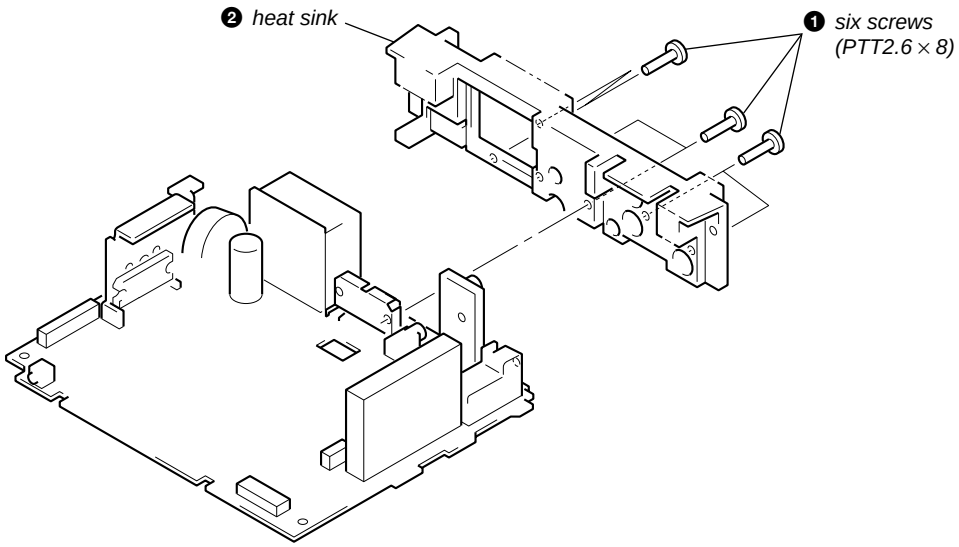
MECHANISM DECK (MG-25G-136)


❼ screw (PTT2.6 × 6)
❽ mechanism deck (MG-25G-136)
❻ connector (CN302)
❺ flexible board (CN301)
❷ two claws
❹ sub panel ass'y
❶ screw (PTT2.6 × 8)
❸ connector (CN701)
❶ four screws (PTT2.6 × 8)
❶ screw (PTT2.6 × 8)
❷ claw

MAIN BOARD



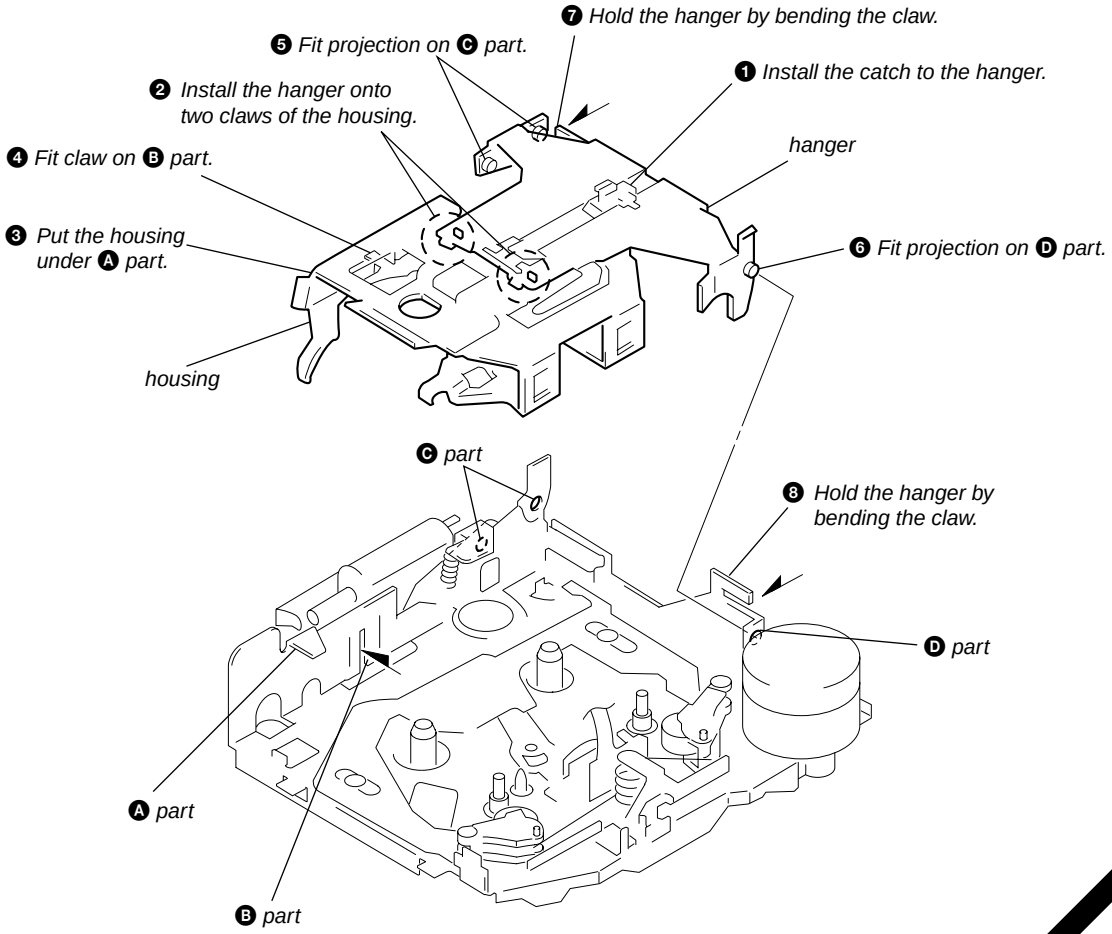
HEAT SINK



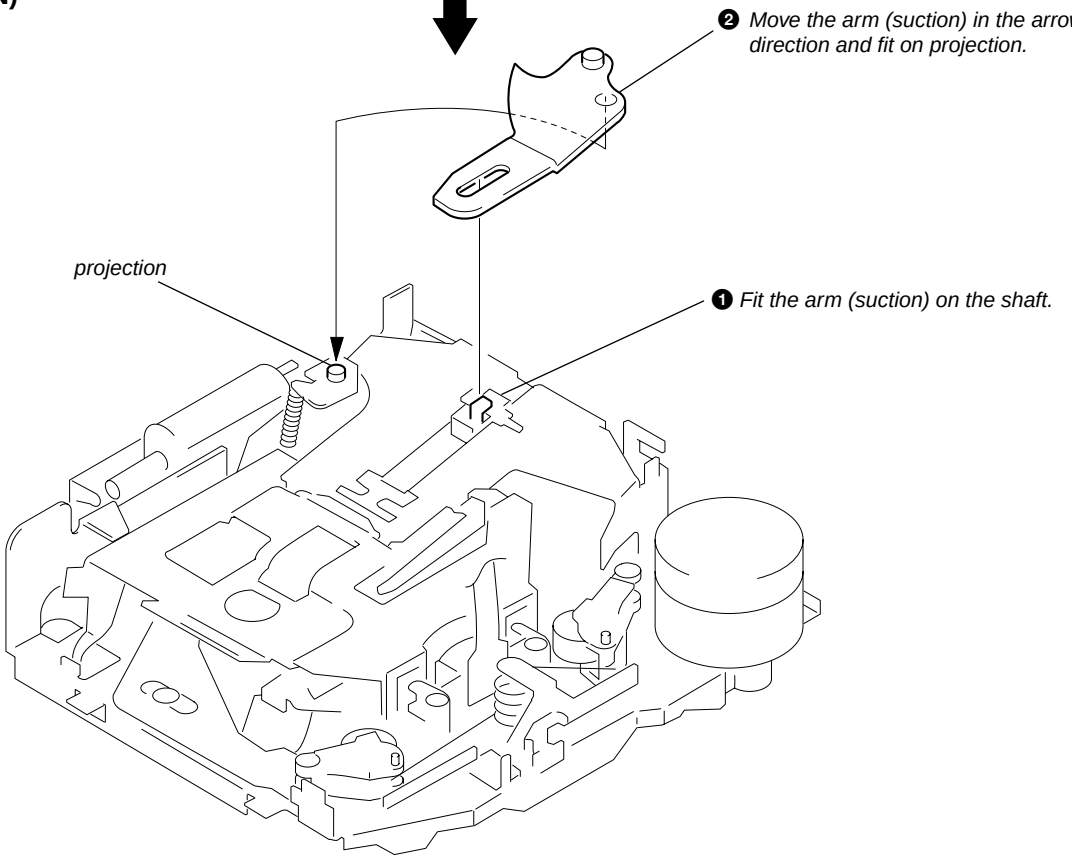
SECTION 3
ASSEMBLY OF MECHANISM DECK

Note: Follow the assembly procedure in the numerical order given.

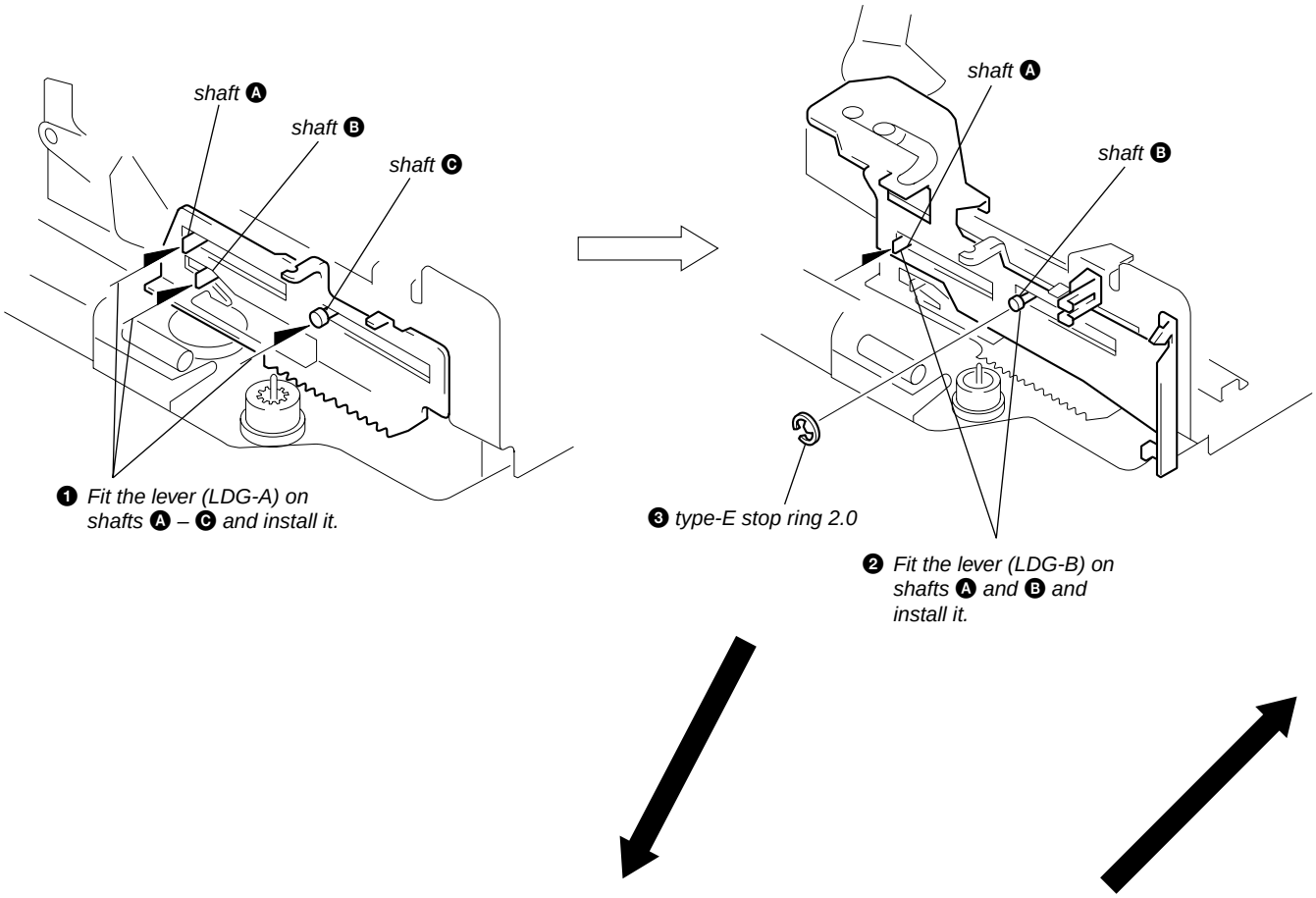
HOUSING


❼ Hold the hanger by bending the claw.
❺ Fit projection on Ⓒ part.
❶ Install the catch to the hanger.
❷ Install the hanger onto two claws of the housing.
hanger
❹ Fit claw on Ⓑ part.
❸ Put the housing under Ⓐ part.
❻ Fit projection on Ⓓ part.
housing
Ⓒ part
❽ Hold the hanger by bending the claw.
Ⓓ part
Ⓐ part
Ⓑ part

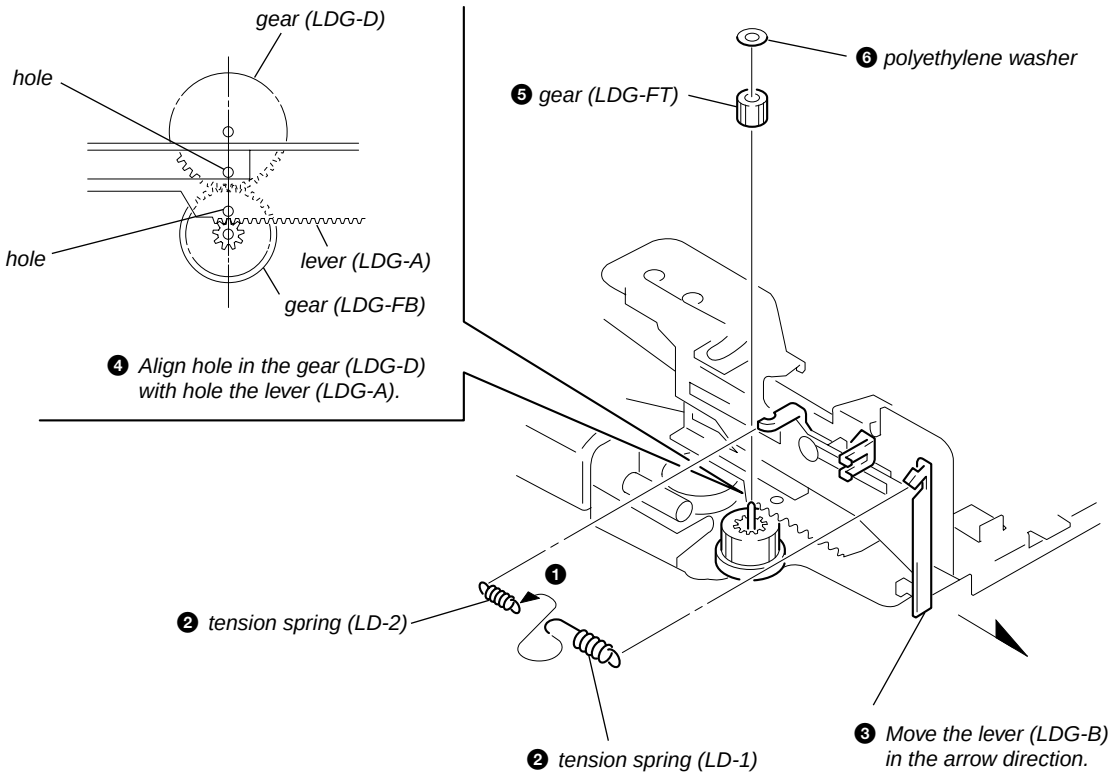
ARM (SUCTION)



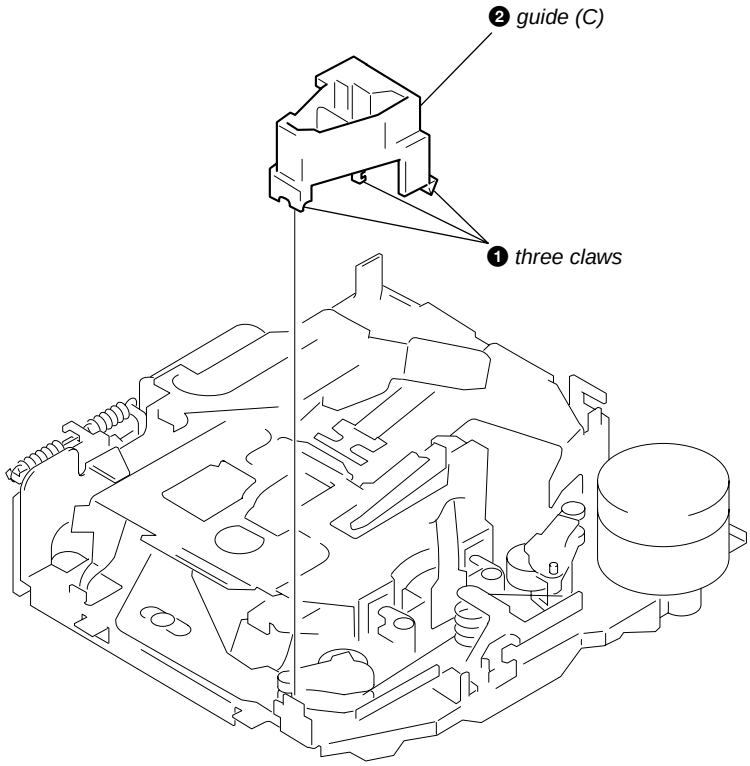
LEVER (LDG-A) / (LDG-B)


shaft Ⓐ
shaft Ⓑ
shaft Ⓒ
❶ Fit the lever (LDG-A) on shafts Ⓐ – Ⓒ and install it.
shaft Ⓐ
shaft Ⓑ
❸ type-E stop ring 2.0
❷ Fit the lever (LDG-B) on shafts Ⓐ and Ⓑ and install it.

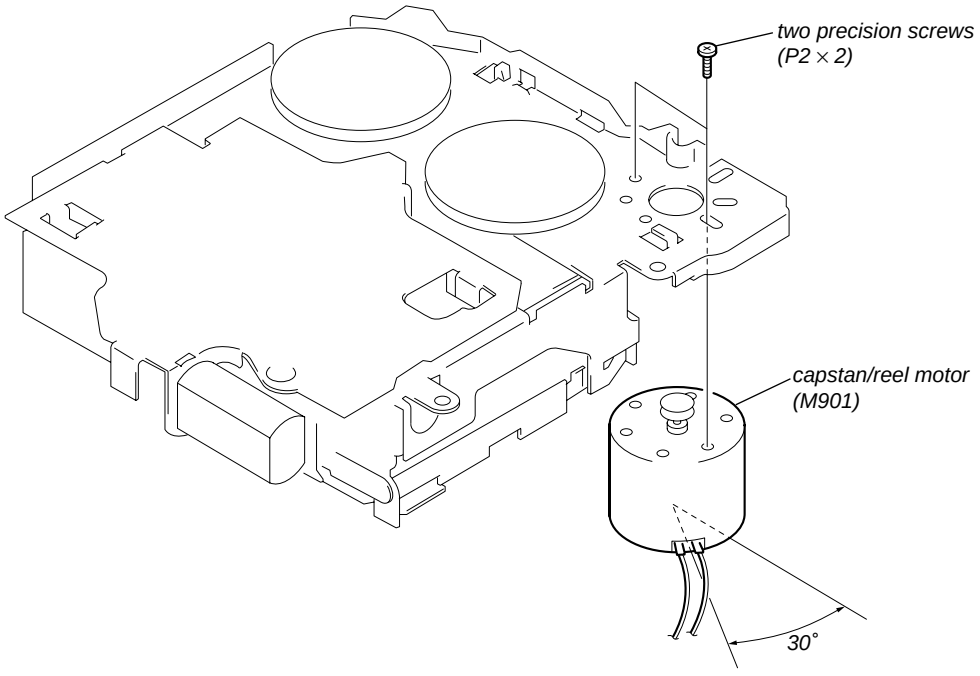
GEAR (LDG-FT)



GUIDE (C)



MOUNTING POSITION OF CAPSTAN/REEL MOTOR (M901)



SECTION 4
MECHANICAL ADJUSTMENTS

1. Clean the following parts with a denatured-alcohol-moistened swab:
   playback head pinch roller
   rubber belt capstan
   idler
2. Demagnetize the playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the power supply voltage unless otherwise noted.

• Torque Measurement

Mode	Torque Meter	Meter Reading
Forward	CQ-102C	2.95 – 6.37 mN•m (30 – 65 g•cm) (0.42 – 0.90 oz•inch)
Forward Back Tension	CQ-102C	0.05 – 0.44 mN•m (0.5 – 4.5g•cm) (0.01 – 0.06 oz•inch)
Reverse	CQ-102RC	2.95 – 6.37 mN•m (30 – 65 g•cm) (0.42 – 0.90 oz•inch)
Reverse Back Tension	CQ-102RC	0.05 – 0.44 mN•m (0.5 – 4.5g•cm) (0.01 – 0.06 oz•inch)
FF, REW	CQ-201B	5.89 – 19.61 mN•m (60 – 200 g•cm) (0.83 – 2.78 oz•inch)

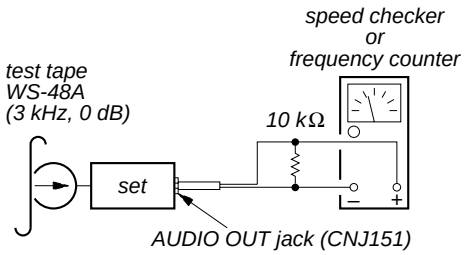
• Tape Tension Measurement

Mode	Tension Meter	Meter Reading
Forward	CQ-403A	more than 8.83 mN•m (more than 90 g) (more than 3.18 oz)
Reverse	CQ-403R	more than 8.83 mN•m (more than 90 g) (more than 3.18 oz)

SECTION 5
ELECTRICAL ADJUSTMENTS

TAPE DECK SECTION | 0 dB=0.775 V

Tape Speed Adjustment
Setting:



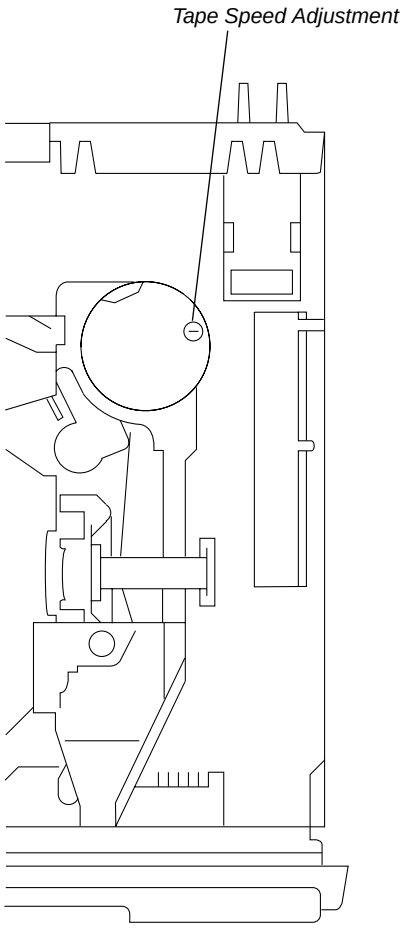
Procedure:
1. Put the set into the FWD PB mode.
2. Adjust adjustment resistor for inside capstan motor so that the reading on the speed checker or frequency counter becomes in specification.

Specification: Constant speed

Speed checker	Frequency counter
–1.5 to +2.5%	2,955 to 3,075 Hz

Adjustment Location:

– SET UPPER VIEW –



TUNER SECTION

Tuner section adjustments are done automatically in this set.

MEMO

SECTION 6
DIAGRAMS

6-1. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ▒▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

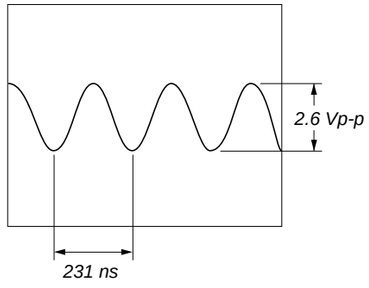
Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.
- B+ : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : MW/LW
  ⟨⟨ ⟩⟩ : TAPE PLAYBACK
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ➡ : MW/LW
  ⇨ : TAPE PLAYBACK

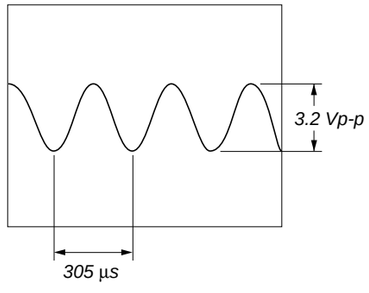
• Waveforms

– MAIN Board –

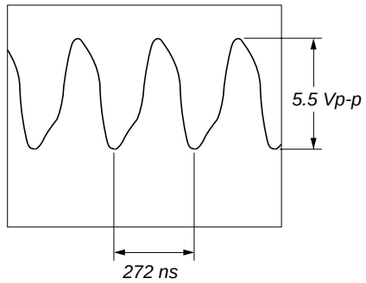
❶ IC51 ⑤ (OSCI)



❷ IC501 ⑬ (X1A)

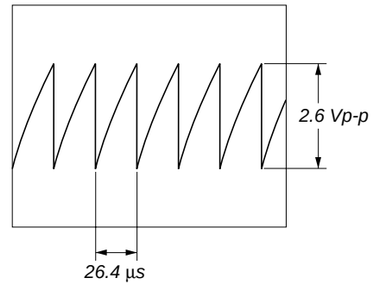


❸ IC501 ㉝ (X1)



– KEY Board –

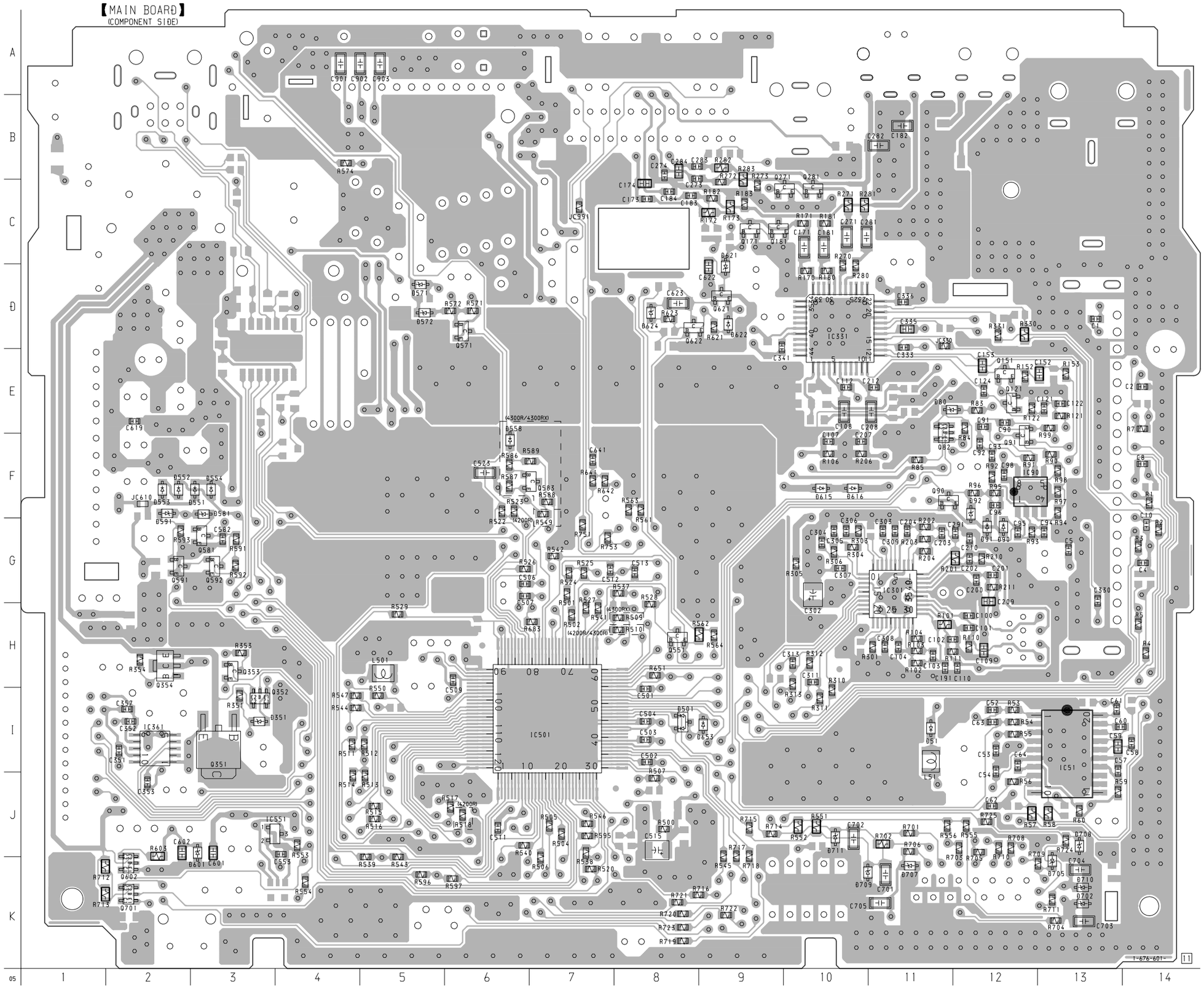
❶ IC901 ㊿ (OSC)

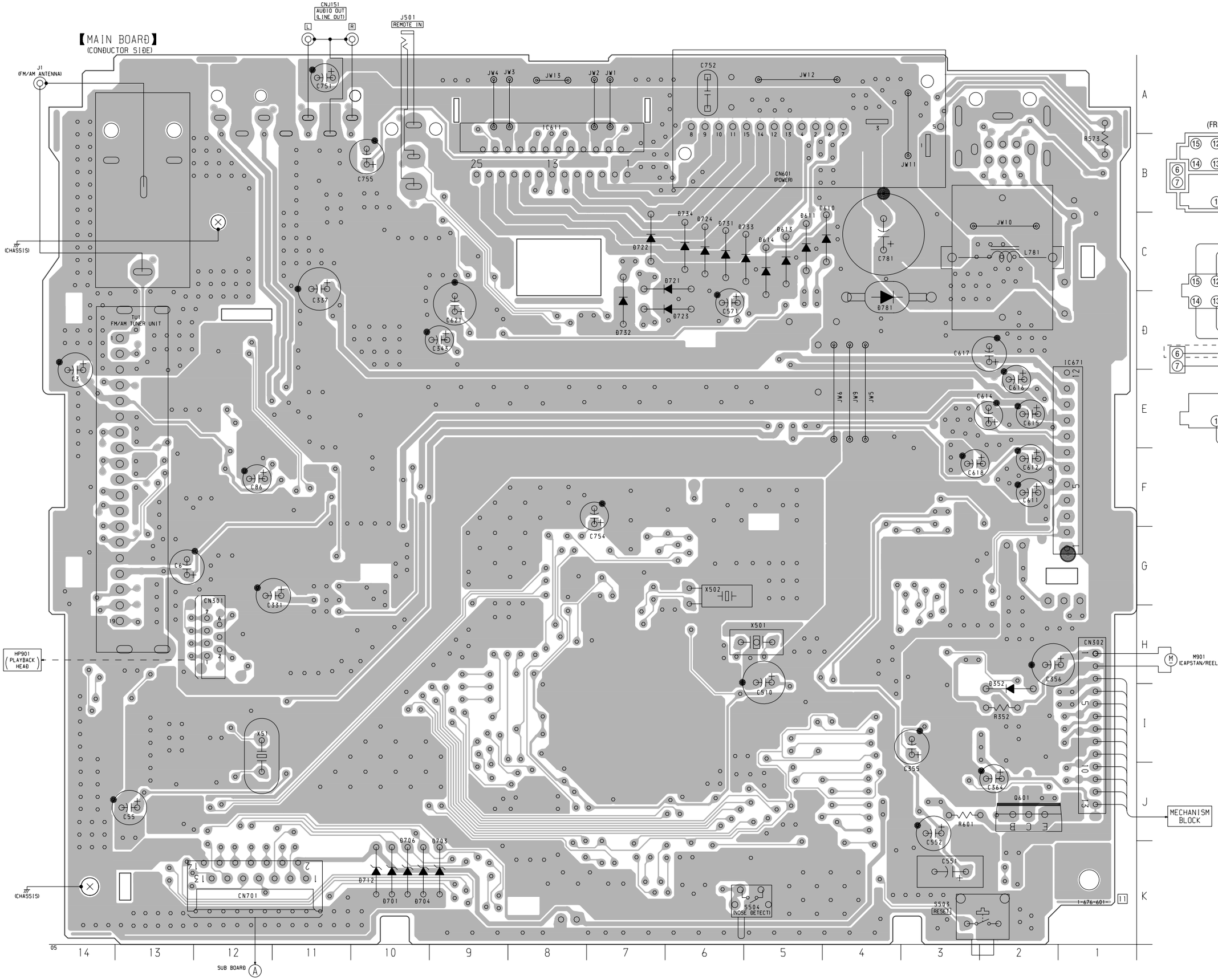


6-2. PRINTED WIRING BOARD – MAIN Board (Component Side) –

- **Semiconductor Location**

Ref. No.	Location
D51	I-11
D80	E-11
D90	G-12
D91	G-12
D92	F-12
D351	I-3
D501	I-8
D551	F-3
D552	F-2
D553	F-2
D554	F-3
D558	F-6
D571	D-5
D572	D-5
D581	F-3
D591	F-2
D601	J-3
D615	F-10
D616	F-10
D621	D-9
D622	D-9
D624	D-8
D653	I-9
D702	K-13
D705	K-13
D707	K-11
D708	J-13
D709	K-11
D710	K-13
D711	J-10
IC51	I-13
IC90	F-12
IC301	G-11
IC331	D-10
IC361	I-2
IC501	I-7
IC551	J-3
Q82	F-11
Q90	F-11
Q91	F-12
Q121	E-12
Q151	E-12
Q171	C-9
Q181	C-9
Q271	C-10
Q281	C-10
Q351	I-3
Q352	I-3
Q353	H-3
Q354	H-2
Q551	H-8
Q571	D-6
Q581	G-3
Q582	F-4
Q583	F-7
Q591	G-2
Q592	G-3
Q602	K-2
Q621	D-9
Q622	D-8
Q701	K-2



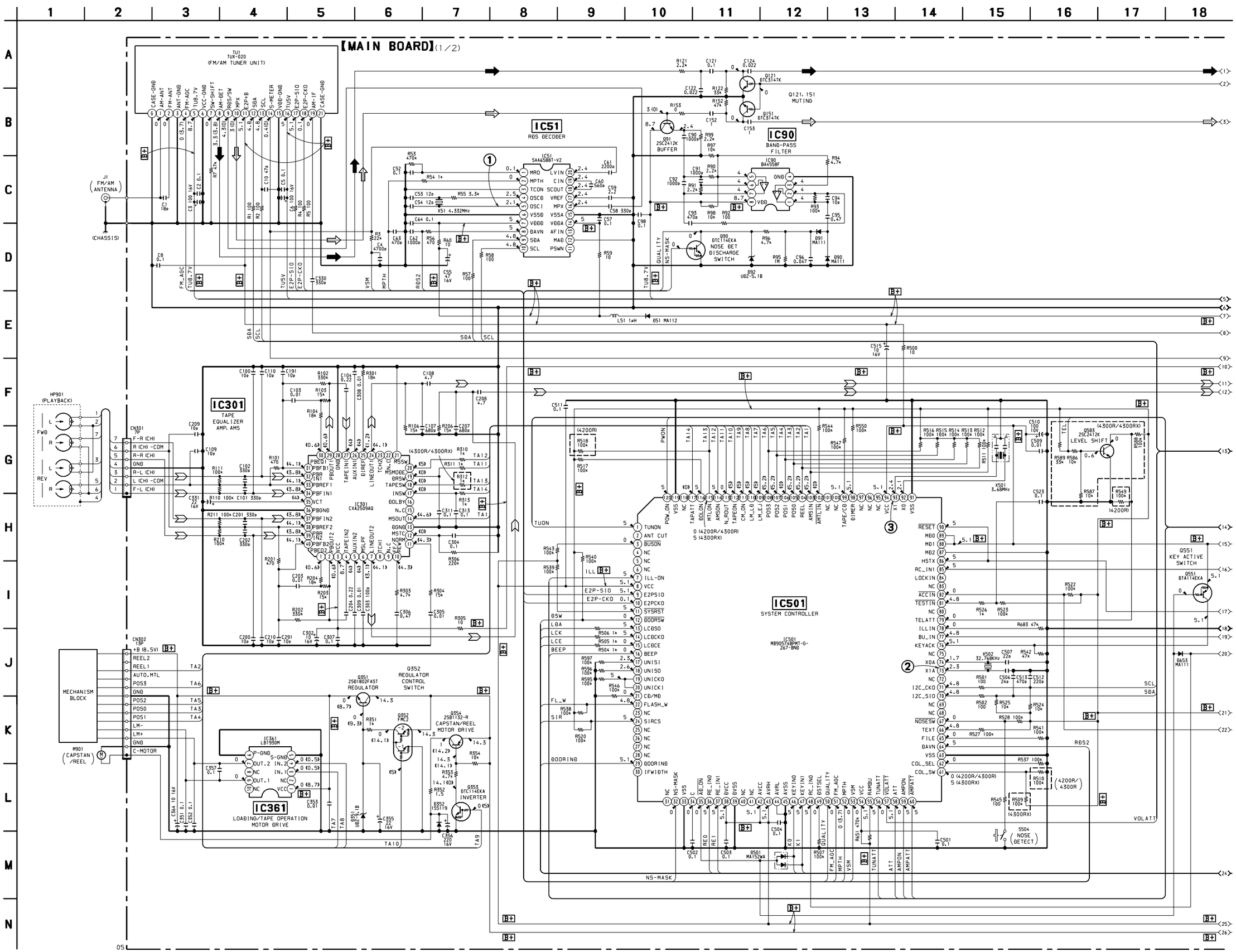


(Page 22)

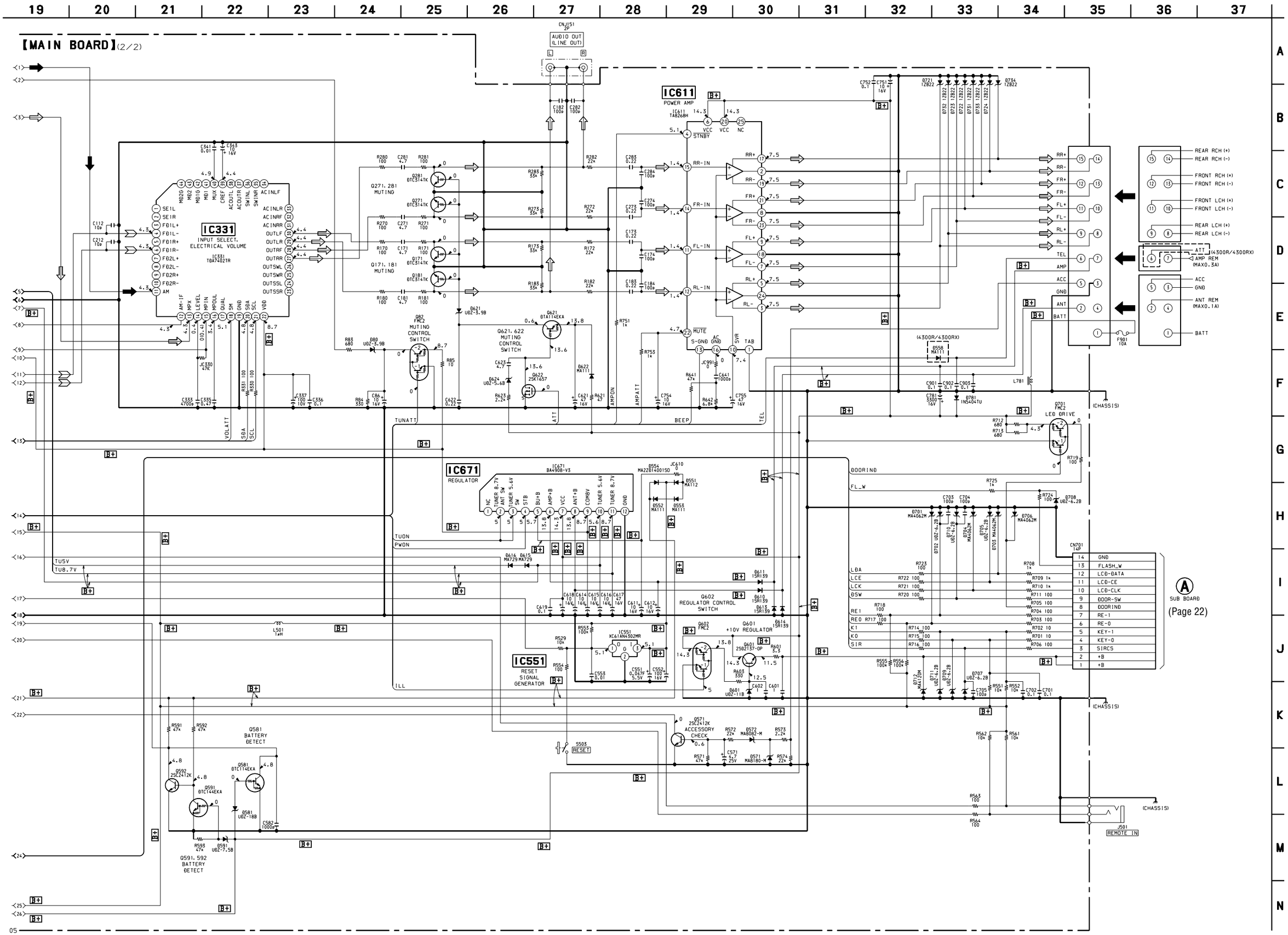
- **Semiconductor Location**

Ref. No.	Location
D352	I-2
D610	C-4
D611	C-5
D613	C-5
D614	C-5
D701	K-10
D703	K-9
D704	K-10
D706	K-10
D712	K-10
D721	C-6
D722	C-7
D723	D-6
D724	C-6
D731	C-6
D732	D-7
D733	C-5
D734	C-6
D781	D-4
IC611	B-8 F-1 J-2

6-4. SCHEMATIC DIAGRAM – MAIN Board (1/2) – • See page 15 for Waveforms. • See page 23 for IC Block Diagrams.



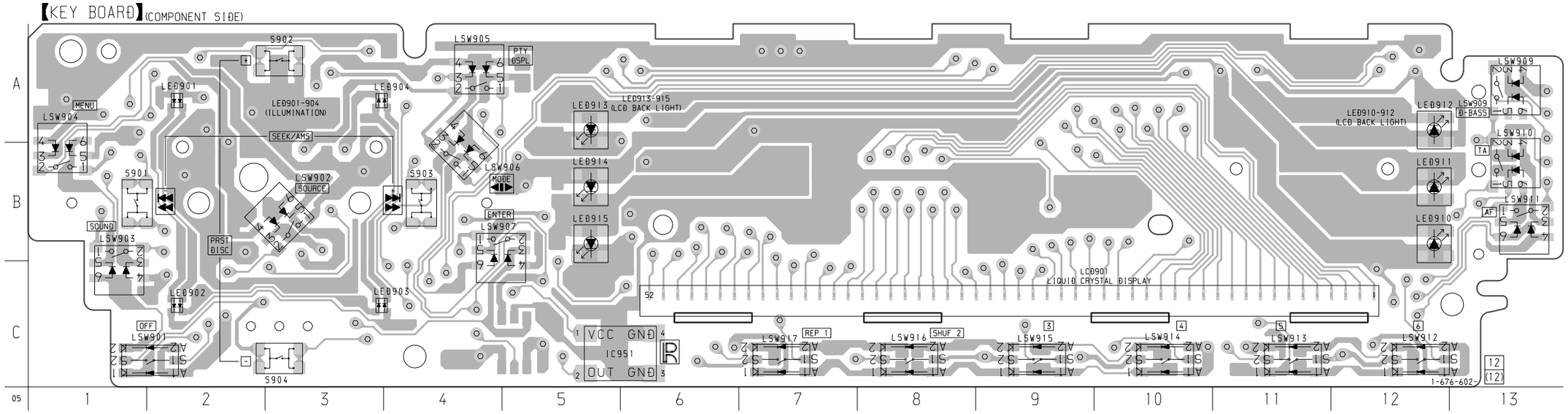
6-5. SCHEMATIC DIAGRAM – MAIN Board (2/2) – • See page 23 for IC Block Diagrams.



6-6. PRINTED WIRING BOARD – KEY Board –

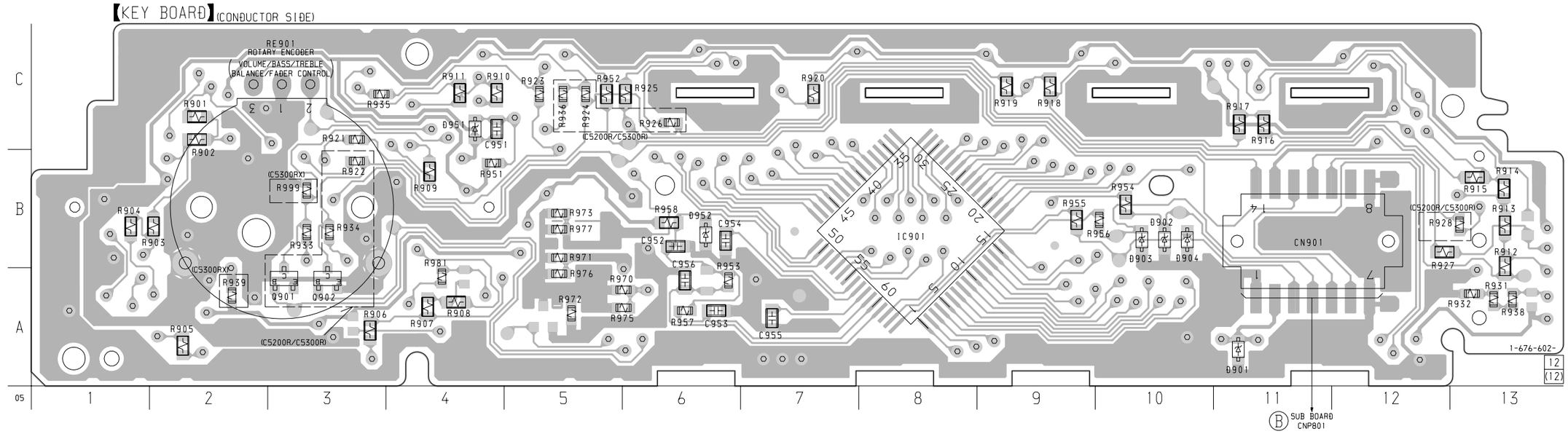
- **Semiconductor Location**

Ref. No.	Location
IC951	C-5
LED901	A-2
LED902	C-2
LED903	C-3
LED904	A-3
LED910	B-12
LED911	B-12
LED912	A-12
LED913	A-5
LED914	B-5
LED915	B-5



- **Semiconductor Location**

Ref. No.	Location
D901	A-11
D902	B-10
D903	B-10
D904	B-10
D951	C-4
D952	B-6
IC901	B-8
Q901	A-3
Q902	A-3



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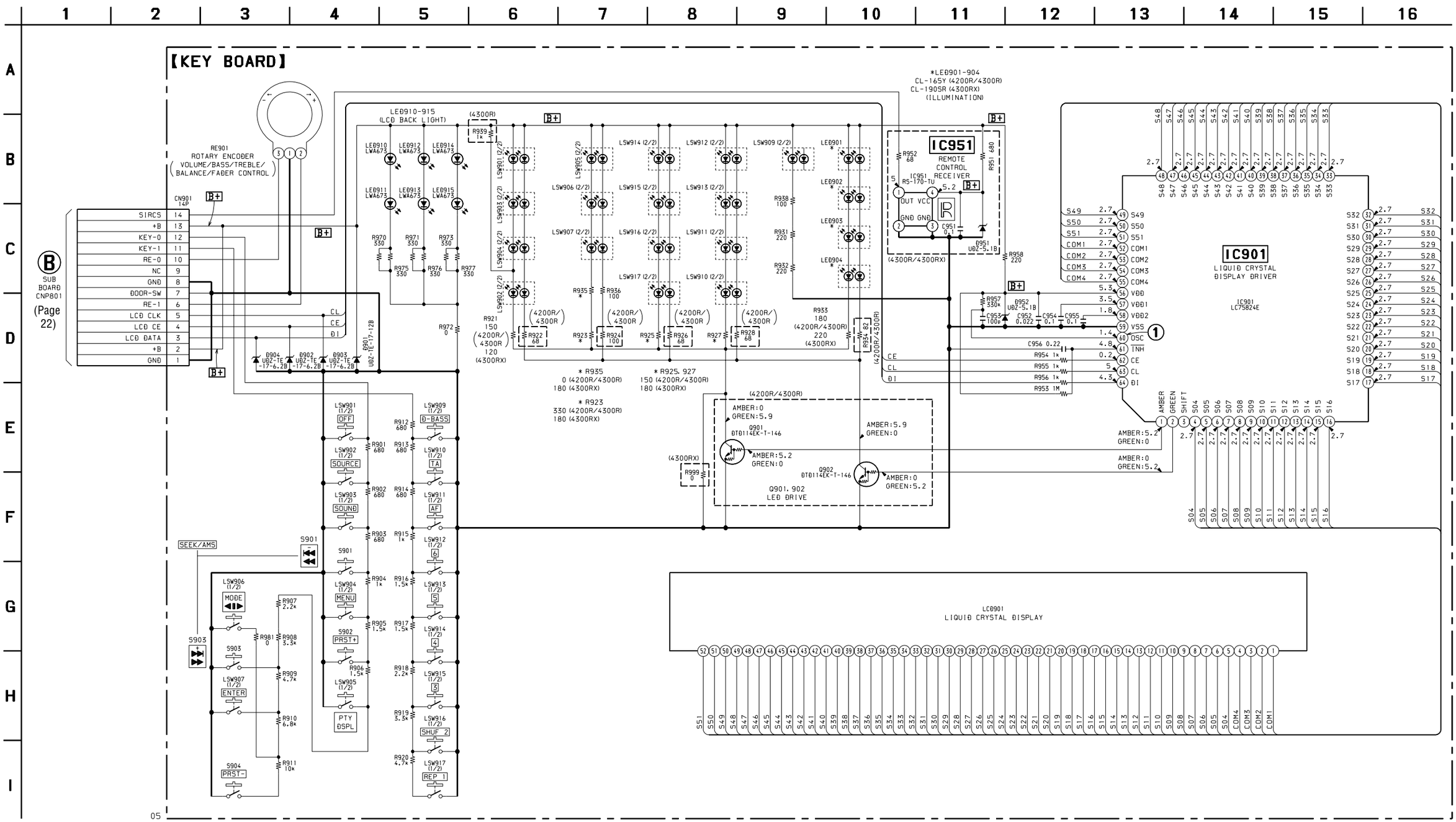
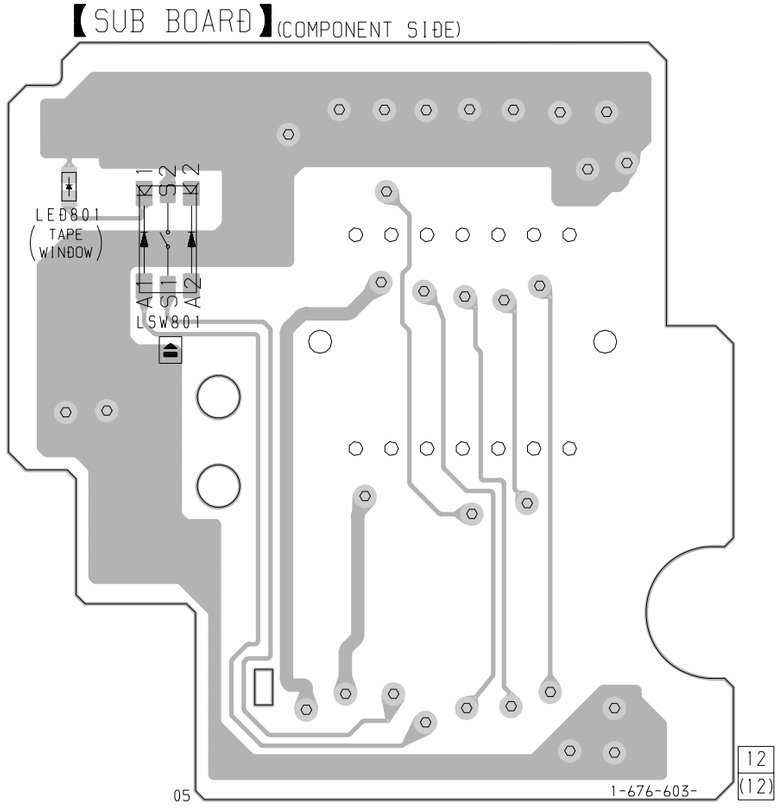
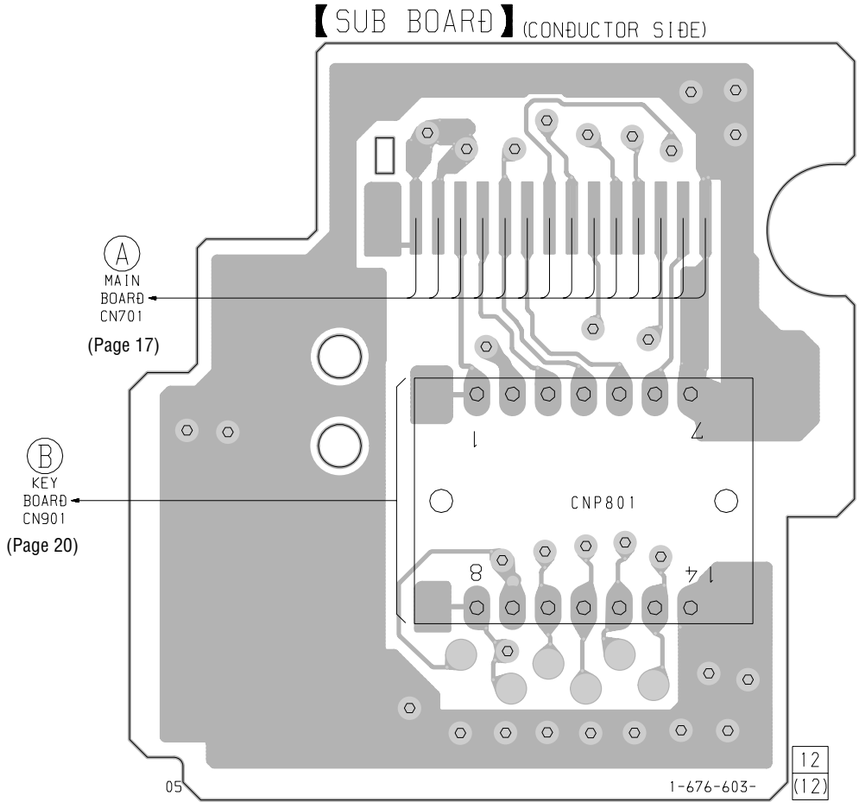
6-7. SCHEMATIC DIAGRAM – KEY Board – • See page 15 for Waveforms.

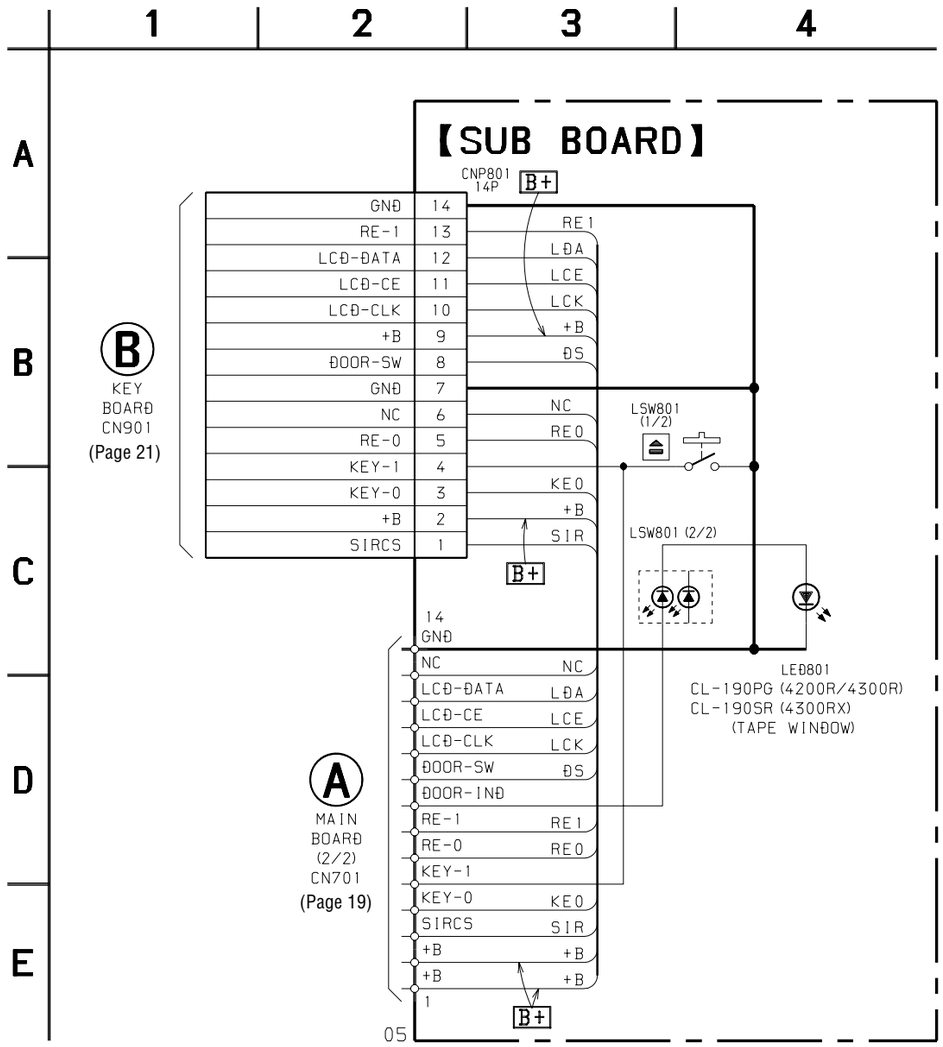


6-8. PRINTED WIRING BOARD – SUB Board –





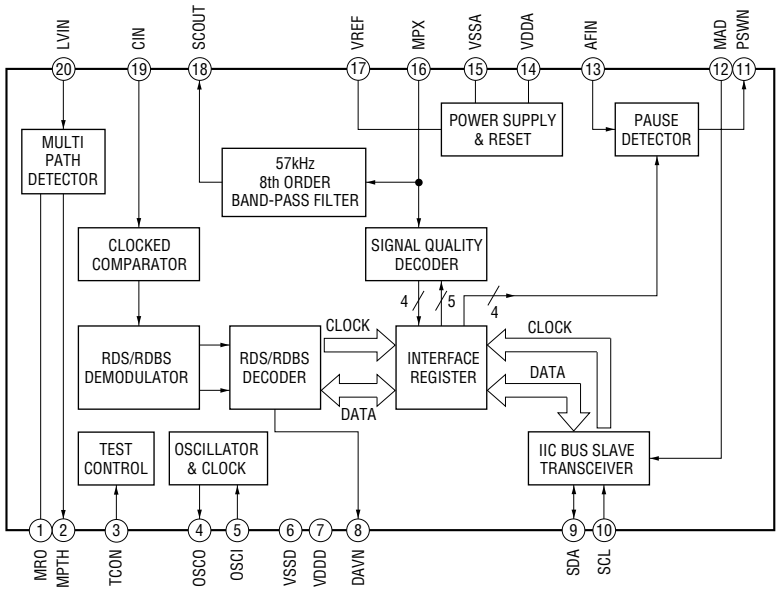
6-9. SCHEMATIC DIAGRAM – SUB Board –



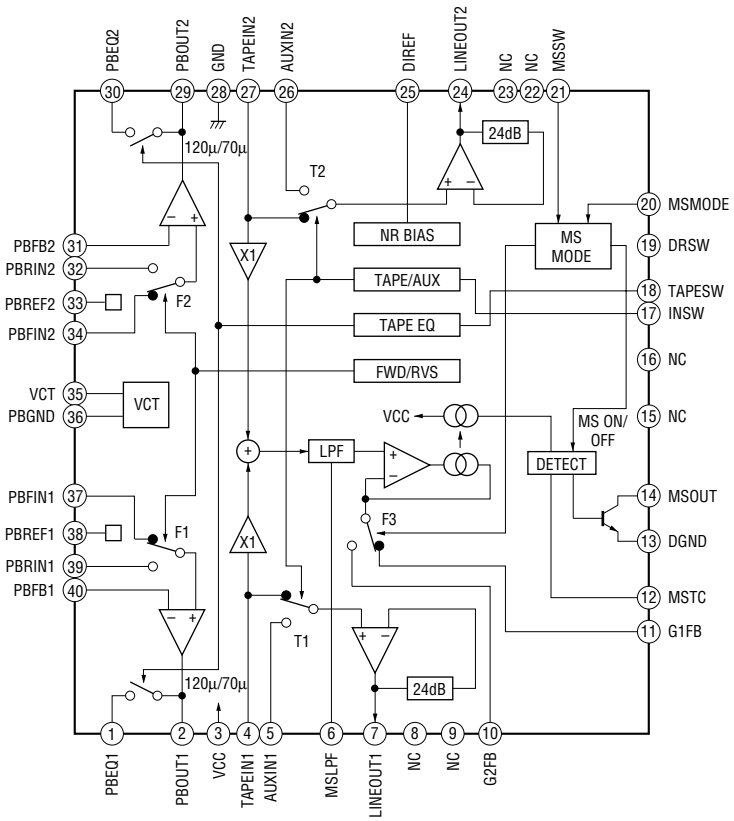
• **IC Block Diagrams**

– MAIN BOARD –

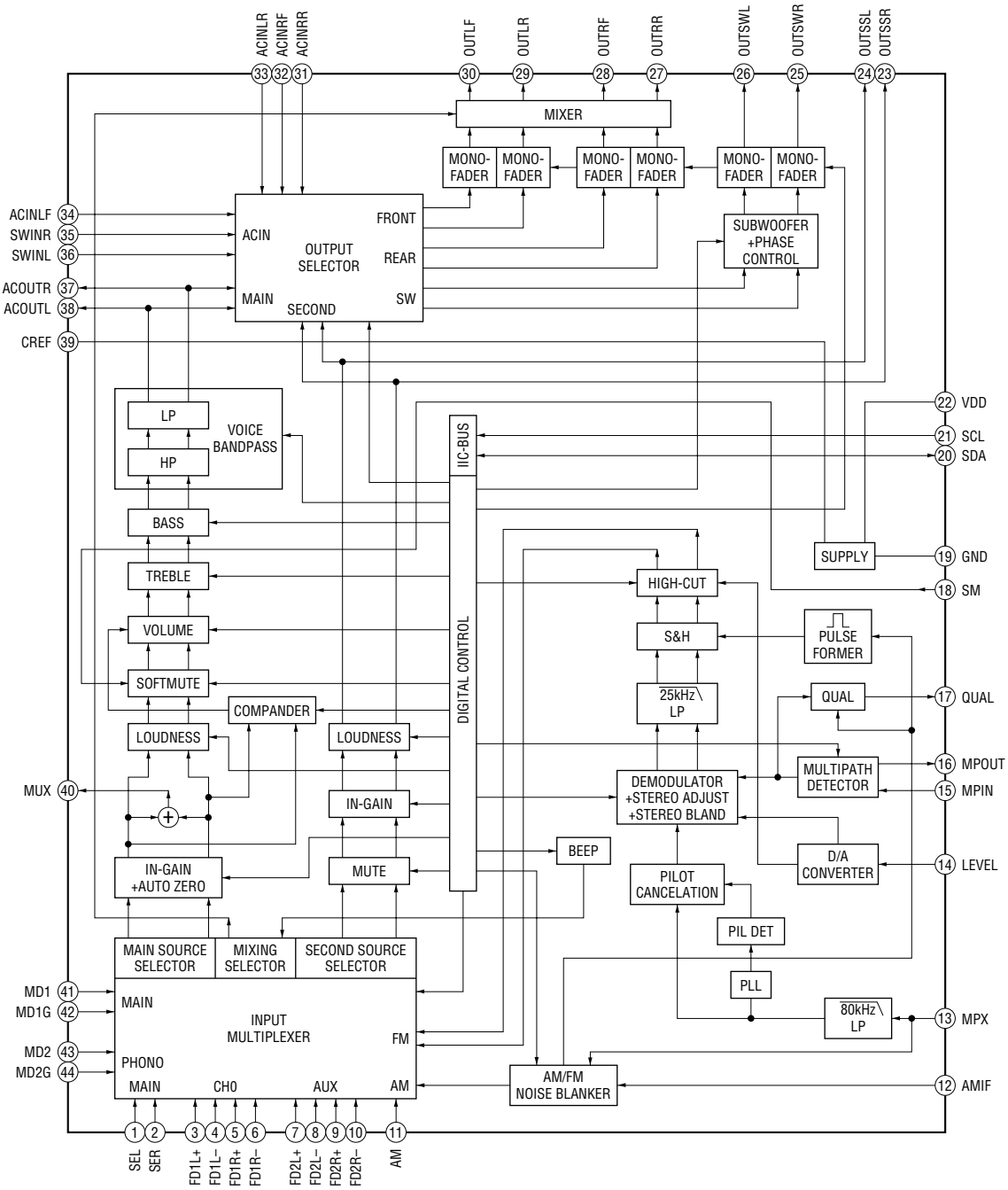
IC51 SAA6588T/V2-118



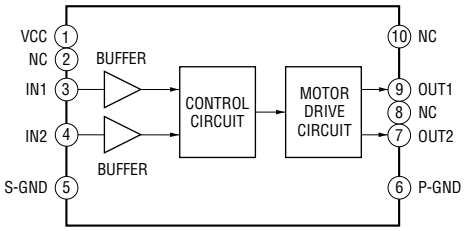
IC301 CXA2509AQ-T4



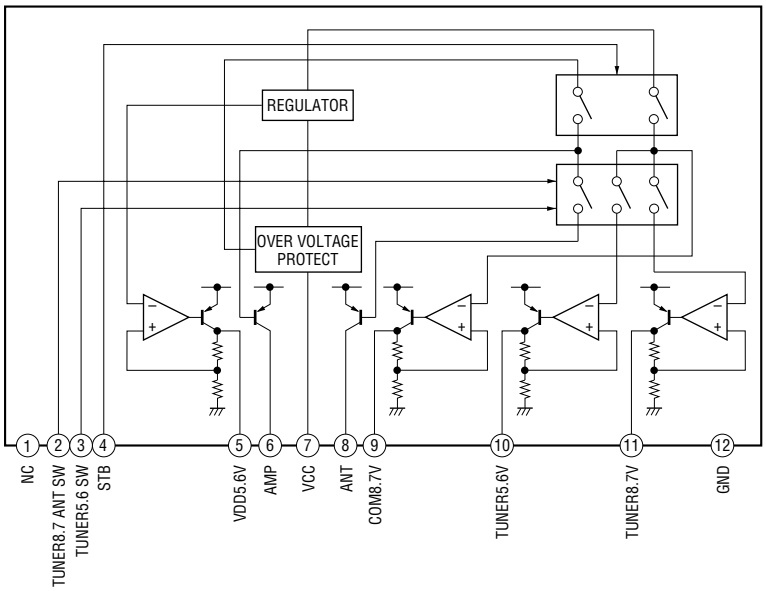
IC331 TDA7402TR



IC361 LB1930M-TLM



IC671 BA4908-V3



6-10. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC501 MB90574BPMT-G-267-BND (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	TU-ON	O	Tuner system power supply on/off control signal output to the BA4908 (IC671) "H": tuner power on
2	ANT CUT	O	Tuner system power supply on/off control signal output terminal "H": tuner power on Not used (open)
3	$\overline{\text{BUS-ON}}$	O	Bus on/off control signal output terminal "L": bus on Not used (fixed at "H" in this set)
4 to 6	NCO	O	Not used (open)
7	ILL-ON	O	Power on/off control signal output of the illumination LED and liquid crystal display driver (IC901) "H": power on
8	VCC	—	Power supply terminal (+5V)
9	E2P SIO	I/O	Two-way data bus with the FM/AM tuner unit (TU1)
10	E2P CKO	I/O	Two-way data bus with the FM/AM tuner unit (TU1)
11	$\overline{\text{SYSRST}}$	O	Reset signal output terminal "L": reset Not used (fixed at "H" in this set)
12	$\overline{\text{DOORSW}}$	I	Front panel open/close detection signal input "L" is input when the front panel is closed
13	LCD SO	O	Serial data output to the liquid crystal display driver (IC901)
14	LCD CKO	O	Serial data transfer clock signal output to the liquid crystal display driver (IC901)
15	LCD CE	O	Chip enable signal output to the liquid crystal display driver (IC901) "H" active
16	BEEP	O	Beep sound drive signal output terminal
17	UNISI	I	Serial data input terminal Not used (fixed at "L" in this set)
18	UNISO	O	Serial data output terminal Not used (fixed at "L" in this set)
19	UNICKO	O	Serial data transfer clock signal output terminal Not used (fixed at "L" in this set)
20	UNICKI	I	Serial data transfer clock signal input terminal Not used (fixed at "L" in this set)
21	CD/MD	I	CD/MD selection signal input terminal Not used (fixed at "L" in this set)
22	$\overline{\text{FLASH-W}}$	I	Internal flash memory data write mode detection signal input terminal "L": data write mode Not used (fixed at "H" in this set)
23	NCO	O	Not used (open)
24	SIRCS	I	Sircs remote control signal input form the remote control receiver (IC951) Used for XR-4300R/4300RX
25 to 28	NCO	O	Not used (open)
29	DOOR-IND	O	LED drive signal output of the door indicator (LED801) "H": LED on "H" is output to turn on LED when front panel is opened
30	IFWIDTH	I	IF band detection signal input terminal Not used (open)
31	NCO	O	Not used (open)
32	NS MASK	O	Discharge control signal output for the noise detection circuit "H": discharge
33	VSS	—	Ground terminal
34	C	—	Connected to coupling capacitor for the power supply
35	$\overline{\text{AD-ON}}$	O	A/D converter power control signal output terminal When the KEYACK (pin ⑯) that controls reference voltage power for key A/D conversion input is active, "L" is output from this terminal to enable the input
36	RE-IN0	I	Dial pulse input of the rotary encoder (RE901) (for VOLUME/BASS/TREBLE/BALANCE/FADER control)
37	RE-IN1	I	
38	DVCC	—	Power supply terminal (+5V) (for D/A converter)
39	DVSS	—	Ground terminal (for D/A converter)
40, 41	NCO	O	Not used (open)
42	AVCC	—	Power supply terminal (+5V) (for A/D converter)
43	AVRH	I	Reference voltage (+5V) input terminal (for A/D converter)
44	AVRL	I	Reference voltage (0V) input terminal (for A/D converter)
45	AVSS	—	Ground terminal (for A/D converter)

Pin No.	Pin Name	I/O	Description
46	KEYIN0	I	Key input terminal (A/D input) (LSW901 to LSW907, S901 to S904) OFF, SOURCE, SOUND, MENU, PTY DSPL, MODE ◄II►, ENTER, SEEK/AMS I◄◄ ◄◄ –, PRST+, SEEK/AMS ►►I ►► +, PRST- keys input
47	KEYIN1	I	Key input terminal (A/D input) (LSW801, LSW909 to LSW917) ⏏, D-BASS, TA, AF, 6, 5, 4, 3, SHIFT 2, REP 1 keys input
48	RC-IN0	I	Rotary remote commander key input terminal (A/D input)
49	DSTSEL	I	Destination setting terminal (fixed at "L")
50	QUALITY	I	Noise level detection signal input at SEEK mode (A/D input)
51	FMAGC	I	FM AGC level detection signal input from the FM/AM tuner unit (TU1) (A/D input)
52	MPTH	I	Multi-path detection signal input from the RDS decoder (IC51)
53	VSM	I	FM and AM signal meter voltage detection input from the FM/AM tuner unit (TU1) (A/D input)
54	VCC	—	Power supply terminal (+5V)
55	$\overline{\text{RAMBU}}$	I	Internal RAM reset detection signal input terminal Input terminal to check that RAM data are not destroyed due to low voltage This checking is made within 100 msec after reset Fixed at "H" in this set
56	TUNATT	O	Muting on/off control signal output of the FM and AM tuner signal "H": muting on
57	$\overline{\text{VOL ATT}}$	O	Muting control signal output to the electrical volume (IC331) Volume minimum: "∞" output ("H" active)
58	ATT	O	Audio line muting on/off control signal output terminal "H": muting on
59	AMP ON	O	Standby on/off control signal output to the power amplifier (IC611) "L": standby mode, "H": amp on
60	$\overline{\text{AMP ATT}}$	O	Muting on/off control signal output to the power amplifier (IC611) "L": muting on
61	COLSW	I	Setting terminal for the illumination color "L": 2 colors, "H": 1 color (fixed at "L" in XR-4200R/4300R, fixed at "H" in XR-4300RX)
62	COLSEL	I	Setting terminal for the illumination color "L": amber, "H": green
63	VSS	—	Ground terminal
64	DAVN	I	Data transmit completed detect signal input from the RDS decoder (IC51) "H" active
65	FILE	I	Setting terminal for the custom file (fixed at "L" in this set)
66	TEXT	I	Setting terminal for the CD text (fixed at "L" in this set)
67	$\overline{\text{NOSESW}}$	I	Front panel block remove/attach detection signal input terminal "L": front panel is attached
68, 69	NCO	O	Not used (open)
70	I2C SIO	I/O	Two-way data bus with the RDS decoder (IC51), electrical volume (IC331) and FM/AM tuner unit (TU1)
71	I2C CKO	O	Bus clock signal output to the RDS decoder (IC51), electrical volume (IC331) and FM/AM tuner unit (TU1)
72	NCO	O	Not used (open)
73	X1A	O	Sub system clock output terminal (32.768 kHz)
74	X0A	I	Sub system clock input terminal (32.768 kHz)
75	NCO	O	Not used (open)
76	KEYACK	I	Input of acknowledge signal for the key entry Acknowledge signal is input to accept function and eject keys in the power off status On at input of "H"
77	BU-IN	I	Battery detect signal input from the SONY bus interface (IC701) and battery detect circuit "L" is input at low voltage
78	$\overline{\text{ILL IN}}$	I	Auto dimmer control illumination line detection signal input terminal "L" is input at dimmer detection Fixed at "L" in this set
79	TEL-ATT	I	Telephone muting signal input terminal At input of "H", the signal is attenuated by –20 dB Used for XR-4300R/4300RX

Pin No.	Pin Name	I/O	Description
80	NCO	O	Not used (open)
81	$\overline{\text{TESTIN}}$	I	Setting terminal for the test mode "L": test mode, Normally: fixed at "H"
82	$\overline{\text{ACC IN}}$	I	Accessory detect signal input terminal "L": accessory on
83	NCO	O	Not used (open)
84	LOCKIN	I	MD lock detection signal input terminal Not used (open)
85	RC-IN1	I	Rotary remote commander shift key input terminal "L": shift
86	HSTX	I	Hardware standby input terminal "L": hardware standby mode Reset signal input in this set
87	MD2	I	Setting terminal for the CPU operational mode (fixed at "L" in this set)
88, 89	MD1, MD0	I	Setting terminal for the CPU operational mode (fixed at "H" in this set)
90	$\overline{\text{RESET}}$	I	System reset signal input from the reset signal generator (IC551) and reset switch (S503) "L": reset "L" is input for several 100 msec after power on, then it changes to "H"
91	VSS	—	Ground terminal
92	X0	I	Main system clock input terminal (3.68 MHz)
93	X1	O	Main system clock output terminal (3.68 MHz)
94	VCC	—	Power supply terminal (+5V)
95 to 97	NCO	O	Not used (open)
98	DIMSEL	I	Dimmer selection signal input terminal (fixed at "H" in this set)
99	TAPE/CD	I	Tape/CD selection signal input terminal "L": CD, "H": tape (fixed at "H" in this set)
100, 101	NCO	O	Not used (open)
102	MTLIN	I	Auto metal detection signal input terminal "L": auto metal (fixed at "H" in this set)
103	AMSIN	I	Whether a music is present or not from CXA2509AQ (IC301) is detected at auto music sensor "L": music is present, "H": music is not present
104	REEL	I	Rotation detect signal input from supply reel sensor and take-up reel sensor on the deck mechanism
105	POS0	I	Tape position (EJECT/FF/REW/ REV/FWD mode) detect input from the tape operation switch on the deck mechanism POS0: "L": EJECT mode, "H": others mode POS1: "L": FF and FWD mode, "H": others mode POS2: "L": REW mode, "H": others mode POS3: "L": REV and EJECT mode, "H": others mode
106	POS1	I	
107	POS2	I	
108	POS3	I	
109	LM-EJ	O	Motor drive signal output to the loading/tape operation motor drive (IC361) "H" active (For the eject direction and reverse side operation) *1
110	LM-LOD	O	Motor drive signal output to the loading/tape operation motor drive (IC361) "H" active (For the loading direction and forward side operation) *1
111	CM-ON	O	Capstan/reel motor (M901) drive signal output terminal "H": motor on
112	TAPEON	O	Tape system power supply on/off control signal output terminal "H": tape on
113	N-ROUT	O	Forward/reverse direction control signal output to the CXA2509AQ (IC301) "L": forward direction, "H": reverse direction
114	$\overline{\text{AMSON}}$	O	Tape auto music sensor control signal output to the CXA2509AQ (IC301) "L" is output to lower the gain for audio level at FF/REW mode
115	MTLON	I/O	METAL control in/out terminal At initial mode: auto/manual mode selection input of METAL function (manual at "L" input) At manual mode: METAL on/off control signal output terminal (METAL on at "H" output) At auto mode: input at MTLIN (pin ⑩②)
116	DOLON	I/O	Dolby control in/out terminal At initial mode: valid/invalid selection input of dolby function (valid at "L" input) At normal mode: dolby on/off control signal output terminal (dolby on at "H" output) Not used this function (fixed at "H")
117	TAPE ATT	O	Tape muting on/off control signal output to the CXA2509AQ (IC301) "H": muting on Active at ATA, FF/REW mode

Pin No.	Pin Name	I/O	Description
118	NCO	O	Not used (open)
119	VSS	—	Ground terminal
120	POWON	O	Main system power supply on/off control signal output to the BA4908 (IC671) “H”: power on

Terminal \ Mode	STOP	LOADING/ FORWARD	EJECT/ REVERSE	BRAKE
LM-LOD (pin ⑩)	“L”	“H”	“L”	“H”
LM-EJ (pin ⑩)	“L”	“L”	“H”	“H”

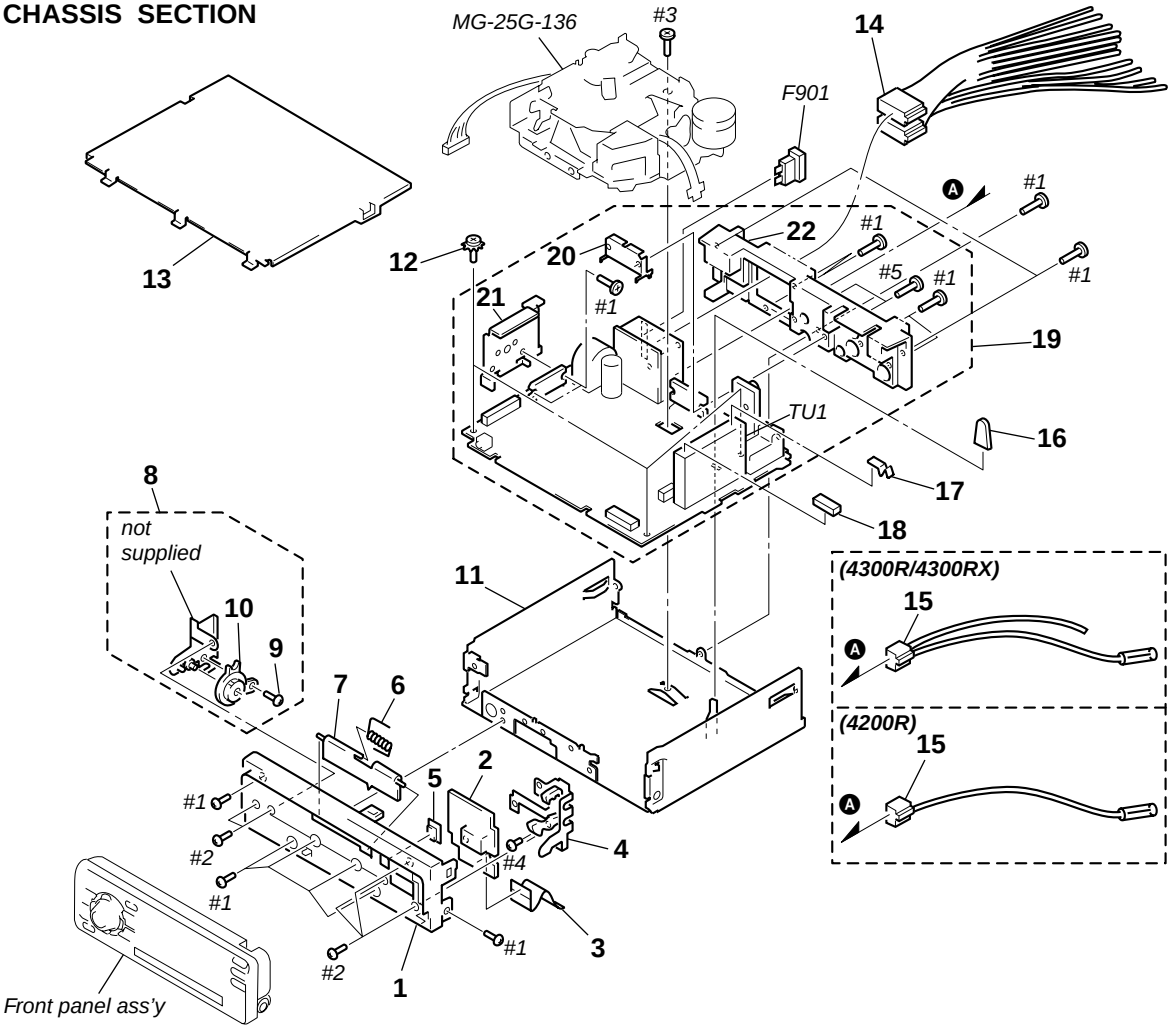
*1 Loading/tape operation motor control

SECTION 7
EXPLODED VIEWS

NOTE:

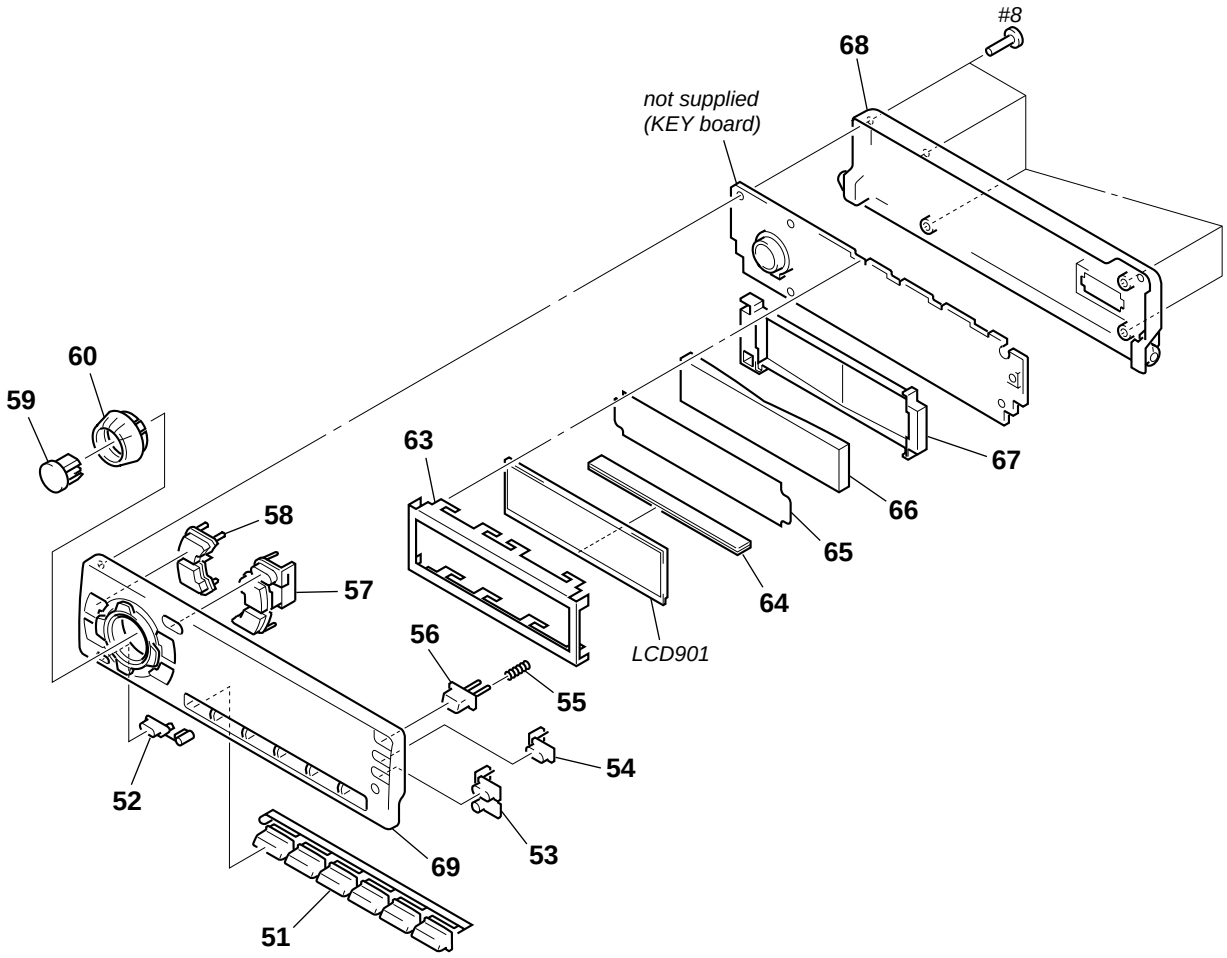
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

(1) CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
1	X-3378-397-1	PANEL ASSY, SUB	
* 2	1-676-603-12	SUB BOARD	
3	1-792-195-11	CABLE, FLEXIBLE FLAT	
4	X-3377-621-2	LOCK ASSY	
5	3-040-990-01	BUTTON (EJECT) (⏏)	
6	3-935-003-01	SPRING, TORSION	
7	3-027-437-12	DOOR, CASSETTE	
8	X-3376-699-2	GEAR ASSY	
9	3-713-786-51	SCREW +P 2X3	
10	3-030-909-02	DAMPER, OIL	
* 11	3-040-994-01	CHASSIS	
* 12	3-040-995-01	COVER	
13	3-915-923-01	SCREW, GROUND POINT	
14	1-782-381-11	CORD (WITH CONNECTOR) (ISO P&S)	(POWER)
15	1-777-989-21	CORD (WITH CONNECTOR) (AMP REM)	(4200R)
15	1-777-989-41	CORD (WITH CONNECTOR) (AMP REM/ATT)	(4300R/4300RX)
16	3-012-859-01	CAP (25), RUBBER	
* 17	3-045-878-01	PLATE (TU), GROUND	
* 18	3-045-877-01	CUSHION (TU)	
* 19	A-3326-172-A	MAIN BOARD, COMPLETE (4200R)	
* 19	A-3326-173-A	MAIN BOARD, COMPLETE (4300R)	
* 19	A-3326-184-A	MAIN BOARD, COMPLETE (4300RX)	
* 20	3-040-998-01	BRACKET (IC)	
* 21	3-041-262-01	HEAT SINK (REG/XR)	
* 22	3-041-014-01	HEAT SINK (IS02P)	
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10A)	
TU1	A-3220-738-A	TUNER UNIT (TUX-020)	

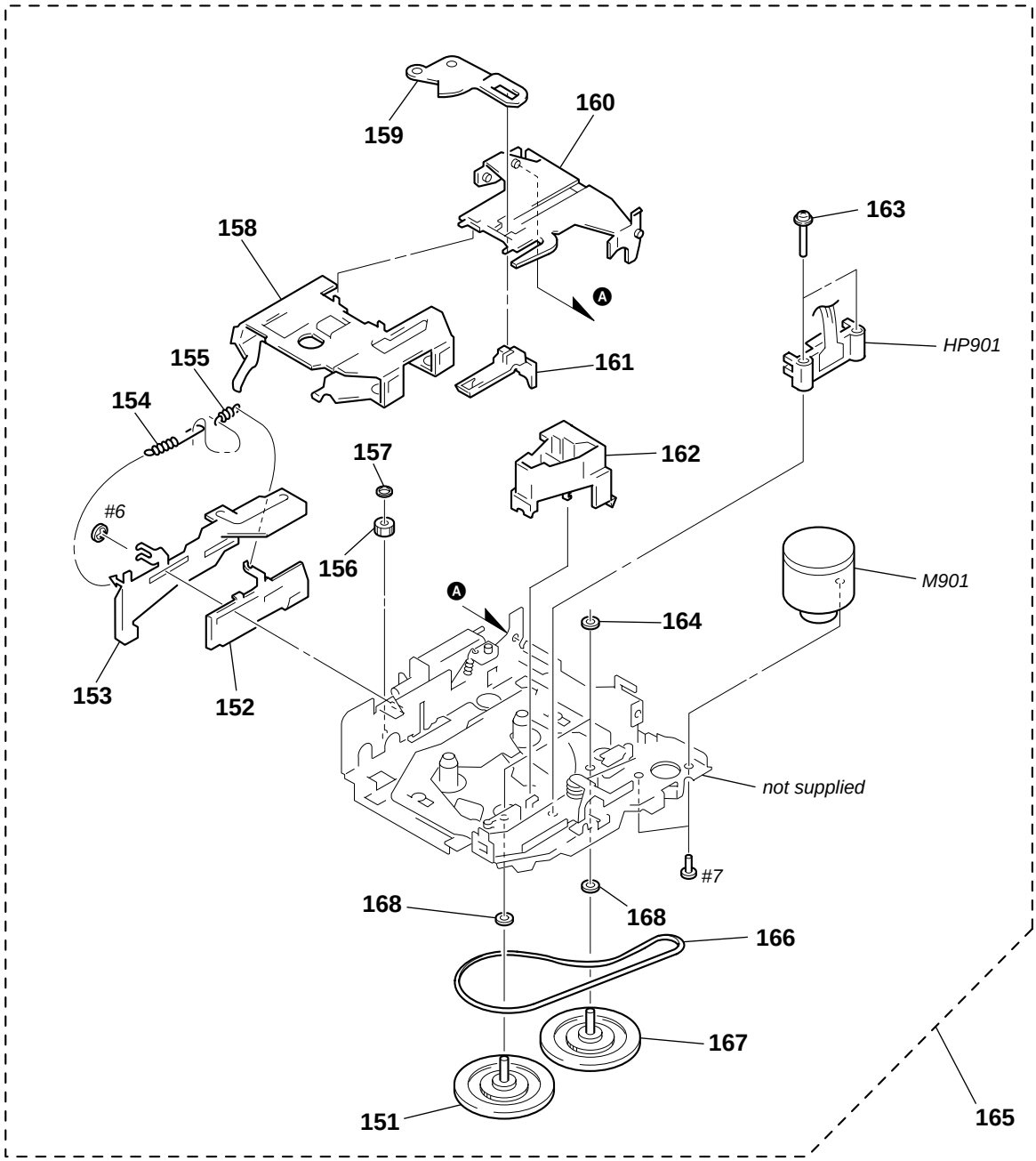
(2) FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	3-040-988-01	BUTTON (1-6) (1. 2. 3. 4. 5. 6)	
52	3-040-987-01	BUTTON (OFF)	
53	3-041-006-01	BUTTON (AF/TA)	
54	3-041-005-11	BUTTON (D) (D-BASS)	
55	3-037-267-01	SPRING (OPEN)	
56	3-040-989-01	BUTTON (OPEN)	
57	3-040-985-01	BUTTON (DIR/ENTER) (DSPL. MODE ◄I►. ENTER)	
58	3-040-986-01	BUTTON (MENU/SOUND)	
59	3-040-980-01	BUTTON (SOURCE)	
60	3-040-981-01	KNOB(VOL)	
* 63	3-040-997-01	PLATE (LCD), GROUND	

Ref. No.	Part No.	Description	Remark
64	1-694-660-11	CONDUCTIVE BOARD, CONNECTION	
* 65	3-041-371-01	SHEET (REFLECTOR)	
* 66	3-040-993-01	PLATE (LCD), LIGHT GUIDE	
* 67	3-040-992-01	HOLDER (LCD)	
68	X-3378-398-1	PANEL ASSY, FRONT BACK	
69	X-3378-577-1	PANEL SUB ASSY (4300RX)	
69	X-3378-587-1	PANEL SUB ASSY (4300R)	
69	X-3378-588-1	PANEL SUB ASSY (4200R)	
LCD901	1-803-906-21	DISPLAY PANEL, LIQUID CRYSTAL (4200R/4300R)	
LCD901	1-803-906-41	DISPLAY PANEL, LIQUID CRYSTAL (4300RX)	

(3) MECHANISM DECK SECTION (MG-25G-136)



Ref. No.	Part No.	Description	Remark
151	A-3291-667-A	CLUTCH (FR) ASSY	
* 152	3-019-130-01	LEVER (LDG-A)	
* 153	3-019-131-01	LEVER (LDG-B)	
154	3-020-539-01	SPRING (LD-1), TENSION	
155	3-020-540-01	SPRING (LD-2), TENSION	
156	3-020-542-01	GEAR (LOADING FT)	
157	3-341-753-11	WASHER, POLYETHYLENE	
158	3-020-533-01	HOUSING	
* 159	3-020-532-01	ARM (SUCTION)	
160	3-020-534-01	HANGER	

Ref. No.	Part No.	Description	Remark
161	3-933-346-01	CATCHER	
162	3-933-344-01	GUIDE (C)	
163	3-014-798-01	SCREW (HEAD), SPECIAL	
164	3-364-151-01	WASHER	
165	A-3220-610-A	MECHANISM DECK ASSY	
166	3-017-302-01	BELT (25)	
167	3-936-853-01	FLYWHEEL (F)	
168	3-701-437-21	WASHER	
HP901	1-500-196-21	HEAD, MAGNETIC (PLAYBACK)	
M901	A-3291-665-A	MOTOR ASSY, MAIN (CAPSTAN/REEL)	

SECTION 8
ELECTRICAL PARTS LIST

KEY

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark
		KEY BOARD	
		**********	
	1-694-660-11	CONDUCTIVE BOARD, CONNECTION	
*	3-040-992-01	HOLDER (LCD)	
*	3-040-993-01	PLATE (LCD), LIGHT GUIDE	
*	3-040-997-01	PLATE (LCD), GROUND	
*	3-041-371-01	SHEET (REFLECTOR)	
		< CAPACITOR >	
C951	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	(4300R/4300RX)
C952	1-163-037-11	CERAMIC CHIP 0.022uF 10% 25V	
C953	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C954	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C955	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C956	1-164-489-11	CERAMIC CHIP 0.22uF 10% 16V	
		< CONNECTOR >	
CN901	1-794-065-21	PLUG, CONNECTOR 14P	
		< DIODE >	
D901	8-719-158-49	DIODE UDZ-TE-17-12B	
D902	8-719-056-82	DIODE UDZ-TE-17-6.2B	
D903	8-719-056-82	DIODE UDZ-TE-17-6.2B	
D904	8-719-056-82	DIODE UDZ-TE-17-6.2B	
D951	8-719-976-99	DIODE UDZ-TE-17-5.1B (4300R/4300RX)	
D952	8-719-976-99	DIODE UDZ-TE-17-5.1B	
		< IC >	
IC901	8-759-366-34	IC LC75824E	
IC951	8-749-012-25	IC RS-170-TU (4300R/4300RX)	
		< LIQUID CRYSTAL DISPLAY >	
LCD901	1-803-906-21	DISPLAY PANEL, LIQUID CRYSTAL	(4200R/4300R)
LCD901	1-803-906-41	DISPLAY PANEL, LIQUID CRYSTAL (4300RX)	
		< LED >	
LED901	8-719-061-16	LED CL-190SR-CD-T (ILLUMINATION)	(4300RX)
LED901	8-719-078-15	LED CL-165Y/PG-D-T (ILLUMINATION)	(4200R/4300R)
LED902	8-719-061-16	LED CL-190SR-CD-T (ILLUMINATION)	(4300RX)
LED902	8-719-078-15	LED CL-165Y/PG-D-T (ILLUMINATION)	(4200R/4300R)
LED903	8-719-061-16	LED CL-190SR-CD-T (ILLUMINATION)	(4300RX)
LED903	8-719-078-15	LED CL-165Y/PG-D-T (ILLUMINATION)	(4200R/4300R)
LED904	8-719-061-16	LED CL-190SR-CD-T (ILLUMINATION)	(4300RX)
LED904	8-719-078-15	LED CL-165Y/PG-D-T (ILLUMINATION)	(4200R/4300R)
LED910	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT)	
LED911	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT)	
LED912	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT)	
LED913	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT)	
LED914	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT)	
LED915	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT)	
		< SWITCH >	
LSW901	1-771-610-11	SWITCH, TACTILE (WITH LED) (OFF)	(4200R/4300R)
LSW901	1-771-883-21	SWITCH, TACTILE (WITH LED) (OFF) (4300RX)	
LSW902	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (SOURCE)	(4200R/4300R)
LSW902	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (SOURCE)	(4300RX)
LSW903	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (SOUND)	(4200R/4300R)
LSW903	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (SOUND)	(4300RX)
LSW904	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (MENU)	(4200R/4300R)
LSW904	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (MENU)	(4300RX)
LSW905	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (PTY DSPL)	(4200R/4300R)
LSW905	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (PTY DSPL)	(4300RX)
LSW906	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (MODE ◄I►)	(4200R/4300R)
LSW906	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (MODE ◄I►)	(4300RX)
LSW907	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (ENTER)	(4200R/4300R)
LSW907	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (ENTER)	(4300RX)

KEY

Ref. No.	Part No.	Description			Remark
LSW909	1-762-737-11	SWITCH, KEYBOARD (LED) (D-BASS)			
LSW910	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (TA)			(4200R/4300R)
LSW910	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (TA)			(4300RX)
LSW911	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (AF)			(4200R/4300R)
LSW911	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (AF)			(4300RX)
LSW912	1-771-610-11	SWITCH, TACTILE (WITH LED) (6)			(4200R/4300R)
LSW912	1-771-883-21	SWITCH, TACTILE (WITH LED) (6) (4300RX)			
LSW913	1-771-610-11	SWITCH, TACTILE (WITH LED) (5)			(4200R/4300R)
LSW913	1-771-883-21	SWITCH, TACTILE (WITH LED) (5) (4300RX)			
LSW914	1-771-610-11	SWITCH, TACTILE (WITH LED) (4)			(4200R/4300R)
LSW914	1-771-883-21	SWITCH, TACTILE (WITH LED) (4) (4300RX)			
LSW915	1-771-610-11	SWITCH, TACTILE (WITH LED) (3)			(4200R/4300R)
LSW915	1-771-883-21	SWITCH, TACTILE (WITH LED) (3) (4300RX)			
LSW916	1-771-610-11	SWITCH, TACTILE (WITH LED) (SHUF 2)			(4200R/4300R)
LSW916	1-771-883-21	SWITCH, TACTILE (WITH LED) (SHUF 2)			(4300RX)
LSW917	1-771-610-11	SWITCH, TACTILE (WITH LED) (REP 1)			(4200R/4300R)
LSW917	1-771-883-21	SWITCH, TACTILE (WITH LED) (REP 1)			(4300RX)
		< TRANSISTOR >			
Q901	8-729-904-75	TRANSISTOR	DTD114EK-T-146		(4200R/4300R)
Q902	8-729-904-75	TRANSISTOR	DTD114EK-T-146		(4200R/4300R)
		< RESISTOR >			
R901	1-216-647-11	METAL CHIP	680	0.5% 1/10W	
R902	1-216-647-11	METAL CHIP	680	0.5% 1/10W	
R903	1-216-647-11	METAL CHIP	680	0.5% 1/10W	
R904	1-216-651-11	METAL CHIP	1K	0.5% 1/10W	
R905	1-216-655-11	METAL CHIP	1.5K	0.5% 1/10W	
R906	1-216-655-11	METAL CHIP	1.5K	0.5% 1/10W	
R907	1-216-659-11	METAL CHIP	2.2K	0.5% 1/10W	
R908	1-216-663-11	METAL CHIP	3.3K	0.5% 1/10W	
R909	1-216-667-11	METAL CHIP	4.7K	0.5% 1/10W	
R910	1-216-671-11	METAL CHIP	6.8K	0.5% 1/10W	
R911	1-208-806-11	RES-CHIP	10K	2% 1/10W	
R912	1-216-647-11	METAL CHIP	680	0.5% 1/10W	
R913	1-216-647-11	METAL CHIP	680	0.5% 1/10W	
R914	1-216-647-11	METAL CHIP	680	0.5% 1/10W	
R915	1-216-651-11	METAL CHIP	1K	0.5% 1/10W	
R916	1-216-655-11	METAL CHIP	1.5K	0.5% 1/10W	
R917	1-216-655-11	METAL CHIP	1.5K	0.5% 1/10W	
R918	1-216-659-11	METAL CHIP	2.2K	0.5% 1/10W	
R919	1-216-663-11	METAL CHIP	3.3K	0.5% 1/10W	
R920	1-216-667-11	METAL CHIP	4.7K	0.5% 1/10W	
R921	1-216-810-11	METAL CHIP	120	5% 1/16W	(4300RX)

Ref. No.	Part No.	Description			Remark
R921	1-216-811-11	METAL CHIP	150	5% 1/16W	(4200R/4300R)
R922	1-216-807-11	METAL CHIP	68	5% 1/16W	(4200R/4300R)
R923	1-216-812-11	METAL CHIP	180	5% 1/16W	(4300RX)
R923	1-216-815-11	METAL CHIP	330	5% 1/16W	(4200R/4300R)
R924	1-216-809-11	METAL CHIP	100	5% 1/16W	(4200R/4300R)
R925	1-216-031-00	METAL CHIP	180	5% 1/10W	(4300RX)
R925	1-216-029-00	METAL CHIP	150	5% 1/10W	(4200R/4300R)
R926	1-216-807-11	METAL CHIP	68	5% 1/16W	(4200R/4300R)
R927	1-216-031-00	METAL CHIP	180	5% 1/10W	(4300RX)
R927	1-216-029-00	METAL CHIP	150	5% 1/10W	(4200R/4300R)
R928	1-216-807-11	METAL CHIP	68	5% 1/16W	(4200R/4300R)
R931	1-216-813-11	METAL CHIP	220	5% 1/16W	
R932	1-216-813-11	METAL CHIP	220	5% 1/16W	
R933	1-216-812-11	METAL CHIP	180	5% 1/16W	(4200R/4300R)
R933	1-216-813-11	METAL CHIP	220	5% 1/16W	(4300RX)
R934	1-216-808-11	METAL CHIP	82	5% 1/16W	(4200R/4300R)
R935	1-216-812-11	METAL CHIP	180	5% 1/16W	(4300RX)
R935	1-216-864-11	METAL CHIP	0	5% 1/16W	(4200R/4300R)
R936	1-216-809-11	METAL CHIP	100	5% 1/16W	(4200R/4300R)
R938	1-216-809-11	METAL CHIP	100	5% 1/16W	
R939	1-216-821-11	METAL CHIP	1K	5% 1/16W	(4300RX)
R951	1-216-819-11	METAL CHIP	680	5% 1/16W	(4300R/4300RX)
R952	1-216-021-00	METAL CHIP	68	5% 1/10W	(4300R/4300RX)
R953	1-216-857-11	METAL CHIP	1M	5% 1/16W	
R954	1-216-049-11	RES-CHIP	1K	5% 1/10W	
R955	1-216-049-11	RES-CHIP	1K	5% 1/10W	
R956	1-216-821-11	METAL CHIP	1K	5% 1/16W	
R957	1-216-851-11	METAL CHIP	330K	5% 1/16W	
R958	1-216-033-00	METAL CHIP	220	5% 1/10W	
R970	1-216-815-11	METAL CHIP	330	5% 1/16W	
R971	1-216-815-11	METAL CHIP	330	5% 1/16W	
R972	1-216-864-11	METAL CHIP	0	5% 1/16W	
R973	1-216-815-11	METAL CHIP	330	5% 1/16W	
R975	1-216-815-11	METAL CHIP	330	5% 1/16W	
R976	1-216-815-11	METAL CHIP	330	5% 1/16W	
R977	1-216-815-11	METAL CHIP	330	5% 1/16W	
R981	1-216-864-11	METAL CHIP	0	5% 1/16W	
R999	1-216-864-11	METAL CHIP	0	5% 1/16W	(4300RX)

Ref. No.	Part No.	Description			Remark
		< ROTARY ENCODER >			
RE901	1-475-014-11	ENCODER, ROTARY (VOLUME/BASS/TREBLE/ BALANCE/FADER CONTROL)			
		< SWITCH >			
S901	1-771-884-21	SWITCH, TACTILE (WITH LED) (SEEK/AMS - ⏮ ◀◀)			
S902	1-771-884-21	SWITCH, TACTILE (WITH LED) (PRST +)			
S903	1-771-884-21	SWITCH, TACTILE (WITH LED) (SEEK/AMS + ▶▶⏭ ▶▶)			
S904	1-771-884-21	SWITCH, TACTILE (WITH LED) (PRST -)			
**********					
*	A-3326-172-A	MAIN BOARD, COMPLETE (4200R)			
*	A-3326-173-A	MAIN BOARD, COMPLETE (4300R)			
*	A-3326-184-A	MAIN BOARD, COMPLETE (4300RX)			
		**********			
*	3-040-998-01	BRACKET (IC)			
	3-041-014-01	HEAT SINK (IS02P)			
*	3-041-262-01	HEAT SINK (REG/XR)			
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S			
	7-685-793-09	SCREW +PTT 2.6X8 (S)			
		< CAPACITOR >			
C1	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C2	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3	1-126-933-11	ELECT	100uF	20%	16V
C4	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C5	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C6	1-126-933-11	ELECT	100uF	20%	16V
C8	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (4200R)
C10	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C52	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C53	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C54	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C55	1-124-589-11	ELECT	47uF	20%	16V
C57	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C58	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C59	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C60	1-164-739-11	CERAMIC CHIP	560PF	5%	50V
C61	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C62	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C63	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C64	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C86	1-124-233-11	ELECT	10uF	20%	16V
C90	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C91	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C92	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C93	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C94	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C95	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C96	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C98	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C100	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C101	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C102	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C103	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

Ref. No.	Part No.	Description			Remark
C104	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C107	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C108	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C109	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C110	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C112	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C121	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C122	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C124	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C143	1-163-227-11	CERAMIC CHIP	10PF	0.50F	50V (4300R)
C152	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C153	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C171	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C173	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C174	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C181	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C182	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C183	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C184	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C191	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C200	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C201	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C202	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C203	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C204	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C207	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C208	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C209	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C210	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C212	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C243	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V (4300R)
C271	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C273	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C274	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C281	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C282	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C283	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C284	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C291	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C302	1-131-651-21	TANTALUM CHIP	10uF	20%	16V
C303	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C304	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C305	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C306	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C307	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C308	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C309	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C311	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C313	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C330	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C331	1-124-234-00	ELECT	22uF	20%	16V
C333	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C335	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C336	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C337	1-124-584-00	ELECT	100uF	20%	10V
C341	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

MAIN

Ref. No.	Part No.	Description			Remark
C343	1-124-233-11	ELECT	10uF	20%	16V
C351	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C352	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C353	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C355	1-124-234-00	ELECT	22uF	20%	16V
C356	1-126-934-11	ELECT	220uF	20%	16V
C357	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C364	1-124-233-11	ELECT	10uF	20%	16V
C501	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C502	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C503	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C504	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C506	1-162-975-11	CERAMIC CHIP	24PF	5%	50V
C507	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C509	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C510	1-124-584-00	ELECT	100uF	20%	10V
C511	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C512	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C513	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C515	1-131-651-21	TANTALUM CHIP	10uF	20%	16V
C523	1-163-077-00	CERAMIC CHIP	0.1uF		50V
C551	1-125-701-11	DOUBLE LAYER	0.047F		5.5V
C552	1-126-933-11	ELECT	100uF	20%	16V
C553	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C571	1-126-163-11	ELECT	4.7uF	20%	50V
C582	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C601	1-164-346-11	CERAMIC CHIP	1uF		16V
C602	1-164-346-11	CERAMIC CHIP	1uF		16V
C611	1-126-157-11	ELECT	10uF	20%	16V
C612	1-126-157-11	ELECT	10uF	20%	16V
C614	1-126-157-11	ELECT	10uF	20%	16V
C615	1-126-157-11	ELECT	10uF	20%	16V
C616	1-126-157-11	ELECT	10uF	20%	16V
C617	1-107-909-11	ELECT	47uF	20%	16V
C618	1-126-157-11	ELECT	10uF	20%	16V
C619	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C621	1-124-589-11	ELECT	47uF	20%	16V
C622	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C623	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C641	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C701	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C702	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C703	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C704	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C705	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C752	1-136-165-00	MYLAR	0.1uF	5%	50V
C754	1-124-233-11	ELECT	10uF	20%	16V
C755	1-107-909-11	ELECT	47uF	20%	16V
C781	1-107-885-31	ELECT	3300uF	20%	16V
C901	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C902	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C903	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
		< CONNECTOR >			
CN301	1-766-260-11	CONNECTOR, FFC/FPC (ZIF) 7P			
* CN302	1-506-995-11	PIN, CONNECTOR (PC BOARD) 13P			
CN601	1-794-070-11	PIN, CONNECTOR (ISO) (POWER)			

Ref. No.	Part No.	Description	Remark
CN701	1-784-456-11	CONNECTOR, FFC/FPC 14P	
		< JACK >	
CNJ151	1-774-698-11	JACK, PIN 2P (AUDIO OUT (LINE OUT))	
		< DIODE >	
D51	8-719-067-56	DIODE MA112-TX	
D80	8-719-422-12	DIODE UDZ-TE-17-3.9B	
D90	8-719-073-01	DIODE MA111-TX	
D91	8-719-073-01	DIODE MA111-TX	
D92	8-719-976-99	DIODE UDZ-TE-17-5.1B	
D351	8-719-977-22	DIODE UDZ-TE-17-9.1B	
D352	8-719-911-19	DIODE 1SS119-25TD	
D501	8-719-400-20	DIODE MA152WA-TX	
D551	8-719-067-56	DIODE MA112-TX	
D552	8-719-073-01	DIODE MA111-TX	
D553	8-719-073-01	DIODE MA111-TX	
D554	8-719-072-70	DIODE MA2ZD14001S0	
D558	8-719-073-01	DIODE MA111-TX (4300R/4300RX)	
D571	8-719-057-80	DIODE MA8180-M-TX	
D572	8-719-420-14	DIODE MA8082-M (TX)	
D581	8-719-056-93	DIODE UDZ-TE-17-18B	
D591	8-719-056-84	DIODE UDZ-TE-17-7.5B	
D601	8-719-056-88	DIODE UDZ-TE-17-11B	
D610	8-719-970-02	DIODE 1SR139-400T-32	
D611	8-719-970-02	DIODE 1SR139-400T-32	
D613	8-719-970-02	DIODE 1SR139-400T-32	
D614	8-719-970-02	DIODE 1SR139-400T-32	
D615	8-719-420-51	DIODE MA729-TX	
D616	8-719-420-51	DIODE MA729-TX	
D621	8-719-422-12	DIODE UDZ-TE-17-3.9B	
D622	8-719-073-01	DIODE MA111-TX	
D624	8-719-158-15	DIODE UDZ-TE-17-5.6B	
D653	8-719-073-01	DIODE MA111-TX	
D701	8-719-035-74	DIODE MA4062-M (TA)	
D702	8-719-056-82	DIODE UDZ-TE-17-6.2B	
D703	8-719-035-74	DIODE MA4062-M (TA)	
D704	8-719-035-74	DIODE MA4062-M (TA)	
D705	8-719-056-82	DIODE UDZ-TE-17-6.2B	
D706	8-719-035-74	DIODE MA4062-M (TA)	
D707	8-719-056-82	DIODE UDZ-TE-17-6.2B	
D708	8-719-056-82	DIODE UDZ-TE-17-6.2B	
D709	8-719-056-82	DIODE UDZ-TE-17-6.2B	
D710	8-719-056-82	DIODE UDZ-TE-17-6.2B	
D711	8-719-056-82	DIODE UDZ-TE-17-6.2B	
D712	8-719-034-74	DIODE MA4120-M (TA)	
D721	8-719-079-42	DIODE 1ZB22 (TPA3)	
D722	8-719-079-42	DIODE 1ZB22 (TPA3)	
D723	8-719-079-42	DIODE 1ZB22 (TPA3)	
D724	8-719-079-42	DIODE 1ZB22 (TPA3)	
D731	8-719-079-42	DIODE 1ZB22 (TPA3)	
D732	8-719-079-42	DIODE 1ZB22 (TPA3)	
D733	8-719-079-42	DIODE 1ZB22 (TPA3)	
D734	8-719-079-42	DIODE 1ZB22 (TPA3)	
D781	8-719-049-38	DIODE 1N5404TU	

Ref. No.	Part No.	Description			Remark
		< IC >			
IC51	8-759-650-68	IC SAA6588T/V2-118			
IC90	8-759-909-71	IC BA4558F			
IC301	8-752-079-78	IC CXA2509AQ-T4			
IC331	8-759-653-27	IC TDA7402TR			
IC361	8-759-527-33	IC LB1930M-TLM			
IC501	8-759-665-96	IC MB90574BPMT-G-267-BND			
IC551	8-759-574-61	IC XC61AN4302MR			
IC611	8-759-663-88	IC TA8268H			
IC671	8-759-661-47	IC BA4908-V3			
		< JACK >			
J1	1-764-808-21	JACK (ANT) (FM/AM ANTENNA)			
J501	1-566-822-41	JACK (REMOTE IN)			
		< RESISTOR >			
JC330	1-216-841-11	METAL CHIP	47K	5%	1/16W
JC610	1-216-864-11	METAL CHIP	0	5%	1/16W
JC991	1-216-864-11	METAL CHIP	0	5%	1/16W
		< COIL >			
L51	1-412-026-11	INDUCTOR CHIP	1uH		
L501	1-412-026-11	INDUCTOR CHIP	1uH		
L781	1-419-476-11	COIL, CHOKE (2000)			
		< TRANSISTOR >			
Q82	8-729-921-25	TRANSISTOR	FMC2-T148		
Q90	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q91	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q121	8-729-920-21	TRANSISTOR	DTC314TK-T-146		
Q151	8-729-920-21	TRANSISTOR	DTC314TK-T-146		
Q171	8-729-920-21	TRANSISTOR	DTC314TK-T-146		
Q181	8-729-920-21	TRANSISTOR	DTC314TK-T-146		
Q271	8-729-920-21	TRANSISTOR	DTC314TK-T-146		
Q281	8-729-920-21	TRANSISTOR	DTC314TK-T-146		
Q351	8-729-015-11	TRANSISTOR	2SD1802FAST-TL		
Q352	8-729-921-25	TRANSISTOR	FMC2-T148		
Q353	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q354	8-729-106-60	TRANSISTOR	2SB1132-T100-R		
Q551	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q571	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q581	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q583	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR (4300R/4300RX)		
Q591	1-801-806-11	TRANSISTOR	DTC144EKA-T146		
Q592	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q601	8-729-423-99	TRANSISTOR	2SD2137-OP-TA		
Q602	8-729-921-25	TRANSISTOR	FMC2-T148		
Q621	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q622	8-729-021-94	FET	2SK1657-T1B		
Q701	8-729-921-25	TRANSISTOR	FMC2-T148		
		< RESISTOR >			
R1	1-216-809-11	METAL CHIP	100	5%	1/16W
R2	1-216-809-11	METAL CHIP	100	5%	1/16W
R3	1-216-837-11	METAL CHIP	22K	5%	1/16W
R4	1-216-809-11	METAL CHIP	100	5%	1/16W
R5	1-216-809-11	METAL CHIP	100	5%	1/16W
R7	1-216-841-11	METAL CHIP	47K	5%	1/16W
R53	1-216-853-11	METAL CHIP	470K	5%	1/16W
R54	1-216-821-11	METAL CHIP	1K	5%	1/16W
R55	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R56	1-216-817-11	METAL CHIP	470	5%	1/16W
R57	1-216-025-00	RES-CHIP	100	5%	1/10W
R58	1-216-025-00	RES-CHIP	100	5%	1/10W
R59	1-216-797-11	METAL CHIP	10	5%	1/16W
R60	1-216-797-11	METAL CHIP	10	5%	1/16W
R83	1-216-819-11	METAL CHIP	680	5%	1/16W
R84	1-216-815-11	METAL CHIP	330	5%	1/16W
R85	1-216-797-11	METAL CHIP	10	5%	1/16W
R90	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R91	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R92	1-216-809-11	METAL CHIP	100	5%	1/16W
R93	1-216-845-11	METAL CHIP	100K	5%	1/16W
R94	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R95	1-216-857-11	METAL CHIP	1M	5%	1/16W
R96	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R97	1-216-833-11	RES-CHIP	10K	5%	1/16W
R98	1-216-833-11	RES-CHIP	10K	5%	1/16W
R99	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R101	1-216-041-00	METAL CHIP	470	5%	1/10W
R102	1-216-851-11	METAL CHIP	330K	5%	1/16W
R103	1-216-835-11	METAL CHIP	15K	5%	1/16W
R104	1-216-836-11	METAL CHIP	18K	5%	1/16W
R106	1-216-835-11	METAL CHIP	15K	5%	1/16W
R110	1-216-845-11	METAL CHIP	100K	5%	1/16W
R111	1-216-845-11	METAL CHIP	100K	5%	1/16W
R121	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R122	1-216-839-11	METAL CHIP	33K	5%	1/16W
R152	1-216-841-11	METAL CHIP	47K	5%	1/16W
R153	1-216-864-11	METAL CHIP	0	5%	1/16W
R170	1-216-809-11	METAL CHIP	100	5%	1/16W
R171	1-216-809-11	METAL CHIP	100	5%	1/16W
R172	1-216-081-00	METAL CHIP	22K	5%	1/10W
R173	1-216-085-00	METAL CHIP	33K	5%	1/10W
R180	1-216-809-11	METAL CHIP	100	5%	1/16W
R181	1-216-809-11	METAL CHIP	100	5%	1/16W
R182	1-216-837-11	METAL CHIP	22K	5%	1/16W
R183	1-216-839-11	METAL CHIP	33K	5%	1/16W
R201	1-216-041-00	METAL CHIP	470	5%	1/10W
R202	1-216-851-11	METAL CHIP	330K	5%	1/16W
R203	1-216-835-11	METAL CHIP	15K	5%	1/16W
R204	1-216-836-11	METAL CHIP	18K	5%	1/16W
R206	1-216-835-11	METAL CHIP	15K	5%	1/16W
R210	1-216-845-11	METAL CHIP	100K	5%	1/16W
R211	1-216-845-11	METAL CHIP	100K	5%	1/16W
R270	1-216-809-11	METAL CHIP	100	5%	1/16W
R271	1-216-025-00	RES-CHIP	100	5%	1/10W
R272	1-216-837-11	METAL CHIP	22K	5%	1/16W
R273	1-216-839-11	METAL CHIP	33K	5%	1/16W
R280	1-216-809-11	METAL CHIP	100	5%	1/16W
R281	1-216-025-00	RES-CHIP	100	5%	1/10W
R282	1-216-081-00	METAL CHIP	22K	5%	1/10W
R283	1-216-085-00	METAL CHIP	33K	5%	1/10W
R301	1-216-836-11	METAL CHIP	18K	5%	1/16W

MAIN

Ref. No.	Part No.	Description			Remark
R303	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R304	1-216-835-11	METAL CHIP	15K	5%	1/16W
R305	1-216-797-11	METAL CHIP	10	5%	1/16W
R306	1-216-849-11	METAL CHIP	220K	5%	1/16W
R310	1-216-821-11	METAL CHIP	1K	5%	1/16W
R311	1-216-821-11	METAL CHIP	1K	5%	1/16W
R312	1-216-821-11	METAL CHIP	1K	5%	1/16W (C4300R/4300RX)
R313	1-216-821-11	METAL CHIP	1K	5%	1/16W
R330	1-216-025-00	RES-CHIP	100	5%	1/10W
R331	1-216-809-11	METAL CHIP	100	5%	1/16W
R351	1-216-821-11	METAL CHIP	1K	5%	1/16W
R352	1-249-383-11	CARBON	1.5	5%	1/6W
R353	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R354	1-216-833-11	RES-CHIP	10K	5%	1/16W
R500	1-216-797-11	METAL CHIP	10	5%	1/16W
R501	1-216-809-11	METAL CHIP	100	5%	1/16W
R502	1-216-809-11	METAL CHIP	100	5%	1/16W
R504	1-216-821-11	METAL CHIP	1K	5%	1/16W
R505	1-216-821-11	METAL CHIP	1K	5%	1/16W
R506	1-216-821-11	METAL CHIP	1K	5%	1/16W
R507	1-216-845-11	METAL CHIP	100K	5%	1/16W
R509	1-216-845-11	METAL CHIP	100K	5%	1/16W (4300RX)
R510	1-216-845-11	METAL CHIP	100K	5%	1/16W (4200R/4300R)
R511	1-216-845-11	METAL CHIP	100K	5%	1/16W
R512	1-216-845-11	METAL CHIP	100K	5%	1/16W
R513	1-216-845-11	METAL CHIP	100K	5%	1/16W
R514	1-216-845-11	METAL CHIP	100K	5%	1/16W
R515	1-216-845-11	METAL CHIP	100K	5%	1/16W
R516	1-216-845-11	METAL CHIP	100K	5%	1/16W
R517	1-216-845-11	METAL CHIP	100K	5%	1/16W
R518	1-216-845-11	METAL CHIP	100K	5%	1/16W (4200R)
R520	1-216-845-11	METAL CHIP	100K	5%	1/16W
R522	1-216-845-11	METAL CHIP	100K	5%	1/16W
R523	1-216-845-11	METAL CHIP	100K	5%	1/16W
R524	1-216-833-11	RES-CHIP	10K	5%	1/16W
R525	1-216-833-11	RES-CHIP	10K	5%	1/16W
R526	1-216-821-11	METAL CHIP	1K	5%	1/16W
R527	1-216-845-11	METAL CHIP	100K	5%	1/16W
R528	1-216-845-11	METAL CHIP	100K	5%	1/16W
R529	1-216-833-11	RES-CHIP	10K	5%	1/16W
R537	1-216-845-11	METAL CHIP	100K	5%	1/16W
R538	1-216-845-11	METAL CHIP	100K	5%	1/16W
R539	1-216-845-11	METAL CHIP	100K	5%	1/16W
R540	1-216-845-11	METAL CHIP	100K	5%	1/16W
R541	1-216-845-11	METAL CHIP	100K	5%	1/16W
R542	1-216-841-11	METAL CHIP	47K	5%	1/16W
R543	1-216-845-11	METAL CHIP	100K	5%	1/16W
R544	1-216-845-11	METAL CHIP	100K	5%	1/16W
R545	1-216-809-11	METAL CHIP	100	5%	1/16W
R546	1-216-845-11	METAL CHIP	100K	5%	1/16W
R547	1-216-845-11	METAL CHIP	100K	5%	1/16W
R549	1-216-845-11	METAL CHIP	100K	5%	1/16W (4200R)
R550	1-216-845-11	METAL CHIP	100K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R551	1-208-806-11	RES-CHIP	10K	0.5%	1/10W
R552	1-208-806-11	RES-CHIP	10K	0.5%	1/10W
R553	1-216-845-11	METAL CHIP	100K	5%	1/16W
R554	1-216-809-11	METAL CHIP	100	5%	1/16W
R555	1-216-845-11	METAL CHIP	100K	5%	1/16W
R556	1-216-845-11	METAL CHIP	100K	5%	1/16W
R561	1-216-833-11	RES-CHIP	10K	5%	1/16W
R562	1-208-806-11	RES-CHIP	10K	0.5%	1/10W
R563	1-216-809-11	METAL CHIP	100	5%	1/16W
R564	1-216-809-11	METAL CHIP	100	5%	1/16W
R571	1-216-841-11	METAL CHIP	47K	5%	1/16W
R572	1-216-837-11	METAL CHIP	22K	5%	1/16W
R573	1-249-421-11	CARBON	2.2K	5%	1/4W
R574	1-216-837-11	METAL CHIP	22K	5%	1/16W
R586	1-216-833-11	RES-CHIP	10K	5%	1/16W (4300R/4300RX)
R587	1-216-833-11	RES-CHIP	10K	5%	1/16W (4300R/4300RX)
R588	1-216-845-11	METAL CHIP	100K	5%	1/16W (4300R/4300RX)
R589	1-216-839-11	METAL CHIP	33K	5%	1/16W (4300R/4300RX)
R591	1-216-841-11	METAL CHIP	47K	5%	1/16W
R592	1-216-841-11	METAL CHIP	47K	5%	1/16W
R593	1-216-841-11	METAL CHIP	47K	5%	1/16W
R595	1-216-845-11	METAL CHIP	100K	5%	1/16W
R596	1-216-845-11	METAL CHIP	100K	5%	1/16W
R597	1-216-845-11	METAL CHIP	100K	5%	1/16W
R601	1-249-387-11	CARBON	3.3	5%	1/4W
R603	1-216-037-00	METAL CHIP	330	5%	1/10W
R621	1-216-805-11	METAL CHIP	47	5%	1/16W
R623	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R641	1-216-841-11	METAL CHIP	47K	5%	1/16W
R642	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R651	1-216-853-11	METAL CHIP	470K	5%	1/16W
R683	1-216-841-11	METAL CHIP	47K	5%	1/16W
R701	1-216-797-11	METAL CHIP	10	5%	1/16W
R702	1-216-001-00	METAL CHIP	10	5%	1/10W
R703	1-216-809-11	METAL CHIP	100	5%	1/16W
R704	1-216-809-11	METAL CHIP	100	5%	1/16W
R705	1-216-809-11	METAL CHIP	100	5%	1/16W
R706	1-216-809-11	METAL CHIP	100	5%	1/16W
R708	1-216-821-11	METAL CHIP	1K	5%	1/16W
R709	1-216-821-11	METAL CHIP	1K	5%	1/16W
R710	1-216-821-11	METAL CHIP	1K	5%	1/16W
R711	1-216-809-11	METAL CHIP	100	5%	1/16W
R712	1-216-045-00	METAL CHIP	680	5%	1/10W
R713	1-216-045-00	METAL CHIP	680	5%	1/10W
R714	1-216-809-11	METAL CHIP	100	5%	1/16W
R715	1-216-809-11	METAL CHIP	100	5%	1/16W
R716	1-216-809-11	METAL CHIP	100	5%	1/16W
R717	1-216-809-11	METAL CHIP	100	5%	1/16W
R718	1-216-809-11	METAL CHIP	100	5%	1/16W
R719	1-216-809-11	METAL CHIP	100	5%	1/16W
R720	1-216-809-11	METAL CHIP	100	5%	1/16W
R721	1-216-809-11	METAL CHIP	100	5%	1/16W
R722	1-216-809-11	METAL CHIP	100	5%	1/16W
R723	1-216-809-11	METAL CHIP	100	5%	1/16W
R724	1-216-809-11	METAL CHIP	100	5%	1/16W

Ref. No.	Part No.	Description			Remark
R725	1-216-821-11	METAL CHIP	1K	5%	1/16W
R751	1-216-821-11	METAL CHIP	1K	5%	1/16W
R753	1-216-821-11	METAL CHIP	1K	5%	1/16W
		< SWITCH >			
S503	1-692-431-21	SWITCH, TACTILE (RESET)			
S504	1-771-540-11	SWITCH, PUSH (1 KEY) (NOSE DETECT)			
		< TUNER >			
TU1	A-3220-738-A	FM/AM TUNER UNIT (TUX-020)			
		< VIBRATOR >			
X51	1-579-242-41	VIBRATOR, CRYSTAL (4.332MHz)			
X501	1-767-833-21	VIBRATOR, CERAMIC (3.68MHz)			
X502	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			
**********					
*	1-676-603-12	SUB BOARD			
		**********			
	1-792-195-11	CABLE, FLEXIBLE FLAT			
		< CONNECTOR >			
CNP801	1-794-064-11	SOCKET, CONNECTOR 14P			
		< LED >			
LED801	8-719-038-07	LED CL-190PG-CD-T (TAPE WINDOW)			(4200R/4300R)
LED801	8-719-061-16	LED CL-190SR-CD-T (TAPE WINDOW)			(4300RX)
		< SWITCH >			
LSW801	1-771-609-11	SWITCH, TACTILE (WITH LED) (⏏)			(4200R/4300R)
LSW801	1-771-883-21	SWITCH, TACTILE (WITH LED) (⏏) (4300RX)			
**********					
		MISCELLANEOUS			
		**********			
3	1-792-195-11	CABLE, FLEXIBLE FLAT			
14	1-782-381-11	CORD (WITH CONNECTOR) (ISO P&S)			(POWER)
15	1-777-989-21	CORD (WITH CONNECTOR) (AMP REM)			(4200R)
15	1-777-989-41	CORD (WITH CONNECTOR) (AMP REM/ATT)			(4300R/4300RX)
64	1-694-660-11	CONDUCTIVE BOARD, CONNECTION			
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10A)			
HP901	1-500-196-21	HEAD, MAGNETIC (PLAYBACK)			
LCD901	1-803-906-21	DISPLAY PANEL, LIQUID CRYSTAL			(4200R/4300R)
LCD901	1-803-906-41	DISPLAY PANEL, LIQUID CRYSTAL (4300RX)			
M901	A-3291-665-A	MOTOR ASSY, MAIN (CAPSTAN/REEL)			
**********					
		**********			
		HARDWARE LIST			
		**********			
#1	7-685-793-09	SCREW +PTT 2.6X8 (S)			
#2	7-621-772-20	SCREW +B 2X5			
#3	7-685-792-09	SCREW +PTT 2.6X6 (S)			
#4	7-627-553-28	SCREW, PRECISION +P 2X2.5			
#5	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S			
#6	7-624-104-04	STOP RING 2.0, TYPE -E			
#7	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3			
#8	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT			
**********					
		ACCESSORIES & PACKING MATERIALS			
		**********			
	3-044-359-11	MANUAL, INSTRUCTION			(ENGLISH, SPANISH, SWEDISH, PORTUGUESE) (AEP, UK)
	3-044-359-21	MANUAL, INSTRUCTION			(FRENCH, GERMAN, DUTCH, ITALIAN, GREEK) (AEP)
	3-044-359-31	MANUAL, INSTRUCTION (GERMAN) (German)			
	3-044-359-41	MANUAL, INSTRUCTION			(ENGLISH, CZECH, POLISH, TURKISH, RUSSIAN) (South European)
	3-044-360-11	MANUAL, INSTRUCTION, INSTALL			(ENGLISH, SPANISH, SWEDISH, PORTUGUESE) (AEP, UK)
	3-044-360-21	MANUAL, INSTRUCTION, INSTALL			(FRENCH, GERMAN, DUTCH, ITALIAN, GREEK) (AEP)
	3-044-360-31	MANUAL, INSTRUCTION, INSTALL			(ENGLISH, CZECH, POLISH, TURKISH, RUSSIAN) (South European)
	3-044-360-41	MANUAL, INSTRUCTION,INSTALL (GERMAN)			(German)
	X-3378-490-1	CASE (PANEL) ASSY			
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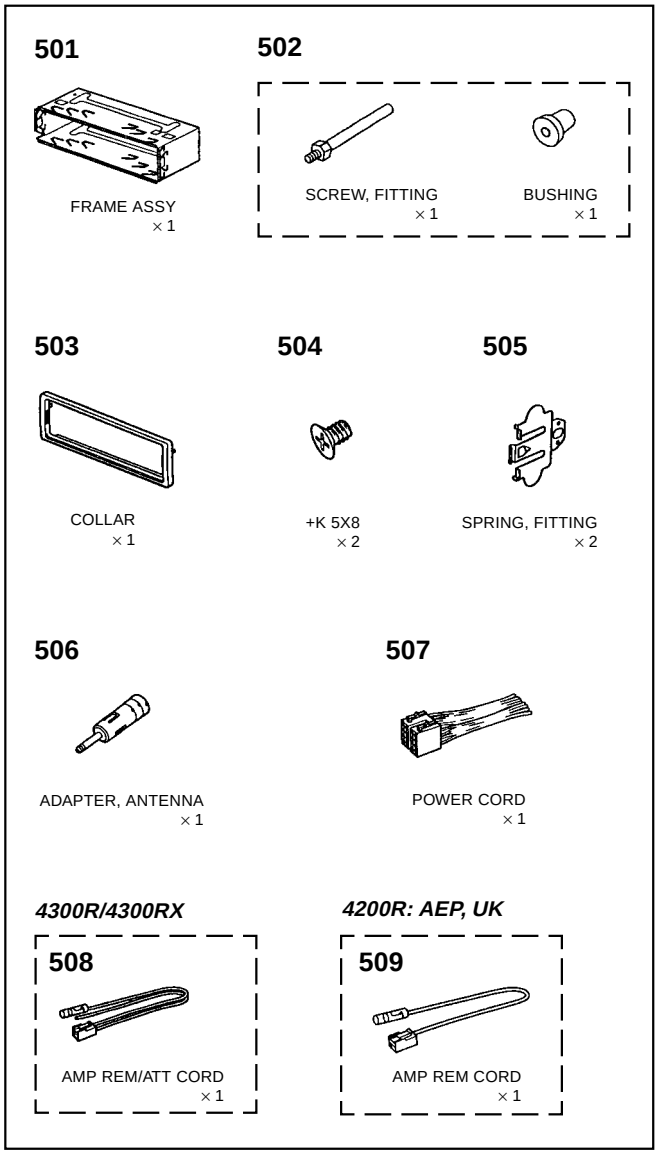
Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNECTIONS	
		**********	
501	X-3373-602-1	FRAME ASSY	
502	X-3366-405-1	SCREW ASSY (EXP), FITTING	
503	3-040-979-01	COLLAR	
504	3-934-325-01	SCREW, +K (5X8) TAPPING	
505	3-233-644-01	SPRING, FITTING	
506	1-465-459-21	ADAPTER, ANTENNA	
507	1-782-381-11	CORD (WITH CONNECTOR) (ISO P&S)	(POWER)
508	1-777-989-41	CORD (WITH CONNECTOR) (AMP REM/ATT)	(4300R/4300RX)
509	1-777-989-21	CORD (WITH CONNECTOR) (AMP REM)	(4200R)



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REVISION HISTORY

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Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.1	2001.05	Change of Part No. for SPRING, FITTING (ECN-CSA04727)
1.0	2000.02	New